

FINAL EXPANDED SITE INSPECTION AMMUNITION STORAGE AREA

ANNISTON ARMY DEPOT ANNISTON, ALABAMA



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An Expanded Site Inspection (ESI) was conducted at the Anniston Army Depot (ANAD) Ammunition Storage Area (ASA). The objective of this ESI was to gather the information and data necessary to determine whether there is sufficient evidence of any release of contamination that would require additional investigation. The ASA contains 1,300 ammunition storage magazines and an ammunition maintenance workshop complex which includes buildings for maintenance, demilitarization, and inspection of all types of ammunition and their components. Fifteen Solid Waste Management Units (SWMUs) were the focus of the ESI, of which 11 were recommend for further investigation.

The work included a review of historical records, field investigations, laboratory analyses, data Interpretation, and report preparation. Contamination from volatile organic compounds and semi volatile organic compounds is not a major problem at the ASA. Arsenic, beryllium, cadmium, chromium, lead, mercury, nickel, silver, vanadium, zinc, explosives, and total petroleum hydrocarbons were detected above control screening values levels in one or more of the media sampled. Nitrate/nitrite and total organic carbon were also detected above control screening values in samples of groundwater, soil, and sediment from a number of SWMUs.

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EXECUTIVE SUMMARY

This document presents the results of the Expanded Site Inspection (ESI) conducted at the Anniston Army Depot (ANAD) Ammunition Storage Area (ASA). The objective of this ESI was to gather the information and data necessary to determine whether there is sufficient evidence of any release of contamination that would require additional investigation.

The 15,200 acres comprising the ANAD are located in northeastern Alabama in Calhoun County. The ASA, which occupies over 90% of the site, contains 1,300 ammunition storage magazines and an ammunition maintenance workshop complex which includes buildings for maintenance, demilitarization, and inspection of all types of ammunition and their components.

Fifteen Solid Waste Management Units (SWMUs) have been identified in the ASA, and are the focus of this report. Five SWMUs are currently active. Permits for four of these SWMUs have been applied for as required by the Resource Conservation and Recovery Act (RCRA) for current waste management. The ESI was concerned with identifying potential contamination from past activities.

The ESI was guided by the work plan written by Jacobs Engineering Group Inc. (Jacobs, 1991). The work included a review of historical records, field investigations, laboratory analyses, data interpretation, and report preparation. Field work included geophysical surveys; soil borings; well installations; and collection of groundwater, soil, sediment, and surface water samples. Laboratory analyses of samples were selected based on a review of historical records and potential contaminants were identified at each of the SWMUs from previous site investigations. All field activities, sample management, laboratory analyses and data management activities were conducted in accordance with an approved Health and Safety Plan, and an approved Quality Assurance Program Plan.

Analytical data for each medium were evaluated to select samples believed to be representative of the natural background. Samples evaluated were collected at locations within the ASA expected to be free of contamination.

Contamination from volatile organic compounds and semi-volatile organic compounds is not a problem at the ASA. Arsenic, beryllium, cadmium, chromium, lead, mercury, nickel, silver, vanadium, zinc, explosives, and total petroleum hydrocarbons were detected above control screening values in one or more of the media sampled. Nitrate/nitrite and total organic carbon were also detected above control screening values in samples of groundwater, soil, and sediment from a number of SWMUs.

Analyses of groundwater and surface water samples collected indicate the presence of a number of elements which occur naturally in soil, sediment, and rocks in the area. Specifically, these are aluminum, barium, calcium, cobalt, copper, iron, magnesium, manganese, molybdenum, potassium, and sodium. However, where the reported concentrations of these elements in soil, sediment, groundwater, and surface water samples are above control screening values, they are considered potential contaminants of concern.

High concentrations of explosives are reported to be present in the SWMU #11 leaching bed. Analysis of samples collected from the leaching bed by ANAD safety personnel prior to capping the bed revealed explosives concentrations ranging from 40-80%. However, documentation of this analysis cannot be located and may no longer exist (personal communication, ANAD-RMD).

The recommendations concerning the 15 ESI SWMUs are based on the results of the field investigations, laboratory analysis of environmental samples, and analyses presented in this report. As a result of these efforts, further investigation to confirm and evaluate potential contamination is recommended at the following 11 SWMUs:

- SWMU #5 Sinkhole
- SWMU #8 Acid Disposal Pit
- SWMU #10 TNT Washout Facility
- SWMU #11 TNT Washout Facility Leaching Beds
- SWMU #14 Laundry Waste Leaching Facility
- SWMU #15 Propellant Disposal Facility
- SWMU #18 Oid Sewage Treatment Plant
- SWMU #26 North TNT Burial Pit

- SWMU #27 South TNT Burial Pit
- SWMU #35 Deactivation Furnace
- SWMU #37 Vehicle Wash Rack.

No further action is recommended at the following four SWMUs:

- SWMU #16 Burning Ground (subject to future RCRA Corrective Action)
- SWMU #17 Demolition Pit (subject to future RCRA Corrective Action)
- SWMU #34 Chemical Storage Igloos
- SWMU #36 Drill and Transfer System Site.

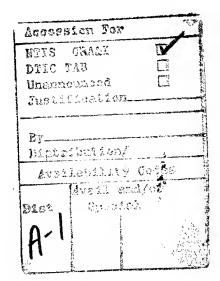


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ACRONYM LIST

ANAD Anniston Army Depot
ASA Ammunition Storage Area

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CRL Certified Reporting Limit
EM Electromagnetic Method
ESI Expanded Site Inspection
GPR Ground-Penetrating Radar

IRDMIS Installation Restoration Data Management Information System

NGVD National Geodetic Vertical Datum

PCBs Polychlorinated Biphenyls

QA Quality Assurance

QAPP Quality Assurance Program Plan

RCRA Resource Conservation and Recovery Act RI/FS Remedial Investigation/Feasibility Study

SIA Southeast Industrial Area

SARA Superfund Amendments and Reauthorization Act

STP Sewage Treatment Plant
SVOC Semivolatile organic compound
SWMU Solid Waste Management Unit

TAL Target Analyte List

TCLP Toxicity characteristic leaching procedure

TDS Total dissolved solids

TPHCs Total Petroleum Hydrocarbons

TOC Total Organic Carbon

USACE U.S. Army Corps of Engineers

USAEC U.S. Army Environmental Center (formerly USATHAMA)

USATHAMA U.S. Army Toxic and Hazardous Material Agency

UXO Unexploded ordnance
VOC Volatile organic compound
μg/l Micrograms per liter
μg/g Micrograms per gram

SECTION 1 INTRODUCTION

This report presents results from the Expanded Site Inspection (ESI) conducted by Jacobs Engineering Group Inc., of the Ammunition Storage Area (ASA) at the Anniston Army Depot (ANAD) located near Anniston, Alabama. The report has been prepared in accordance with Contract No. DAAA15-90-D-0013 for the U.S. Army Environmental Center (AEC). The report presents the scope of the ESI, describes data collection activities, and presents results and conclusions of the work that was conducted in accordance with the ESI Work Plan (Jacobs 1991) and the Field Sampling and Analysis Plan contained therein.

1.1 PURPOSE

The purpose of the ESI was to determine whether there is sufficient evidence of a release at any Solid Waste Management Unit (SWMU) to require additional investigation. The objective of the ESI was to narrow data gaps and facilitate remedial planning (including a determination of the extent of remedial investigations required) should the need for additional action be indicated. U.S. Environmental Protection Agency Region IV has determined that a Hazard Ranking System Scoring as a part of the ESI is not required.

1.2 SCOPE

The ESI was directed at investigating 15 SWMUs within the ASA.¹ The work involved a records search, field investigations, laboratory analysis, data interpretation, and report preparation. The field work included soil boring and well installation, geophysical surveys, and sampling of groundwater, soil, sediment, and surface water for chemical analysis. Field work and analytical activities were conducted in accordance with the approved Health and Safety Plan and the Quality Assurance Program Plan prepared for investigations at ANAD. Samples were delivered to PACE Laboratories, Inc. for chemical analysis. The data were entered into AEC's Installation Restoration Data Management Information System (IRDMIS).

^{&#}x27;Two of the 15 SWMUs (#'s 18 and 37) are outside the ASA boundary, but are included within the scope of the ESI. References to the ASA throughout this ESI include these SWMUs.

Intrusive investigation of some SWMUs (#'s 10, 11, 14, 16, and 17) was restricted because of the suspected presence of explosive materials. Investigations at these SWMUs were limited to records reviews and sampling around the perimeter to identify evidence of contaminant release. Because there were no suspected releases from SWMUs #34 and #36, and because of the extreme toxic chemical hazard at SWMU #34, investigations at these two sites were limited to record searches.

Several SWMUs are currently in use (#'s 16, 17, 18, 34, and 37). The ESI focus was on potential contaminant releases within or from these SWMUs under conditions existing at the time of the investigation.

1.3 ORGANIZATION

The ESI report format is based on the EPA document entitled, "Expanded Site Inspection, Transitional Guidance for Fiscal Year 1988" (EPA 1987). The report is organized by major sections that include an Introduction; a discussion of the Site Background; a Site Physical Characterization; a description of the ESI Field Investigations; a presentation of Investigations and Results; a discussion of the Nature and Extent of Contamination; a presentation of Community Relations Activities; a presentation of Conclusions and Recommendations; and a list of References. Appendices contain detailed supporting information. An Executive Summary appears at the beginning of this report.

SECTION 2 SITE BACKGROUND

The Anniston Army Depot (ANAD) Ammunition Storage (ASA) has been the subject of a number of previous investigations. The information presented in this section was compiled from previous studies and investigations conducted at or near the site. The discussion includes a description of the study area, information on the demography and land use of the region, and a historical review of ANAD operations. A description of Solid Waste Management Units (SWMUs) and an overview of previous investigations are included.

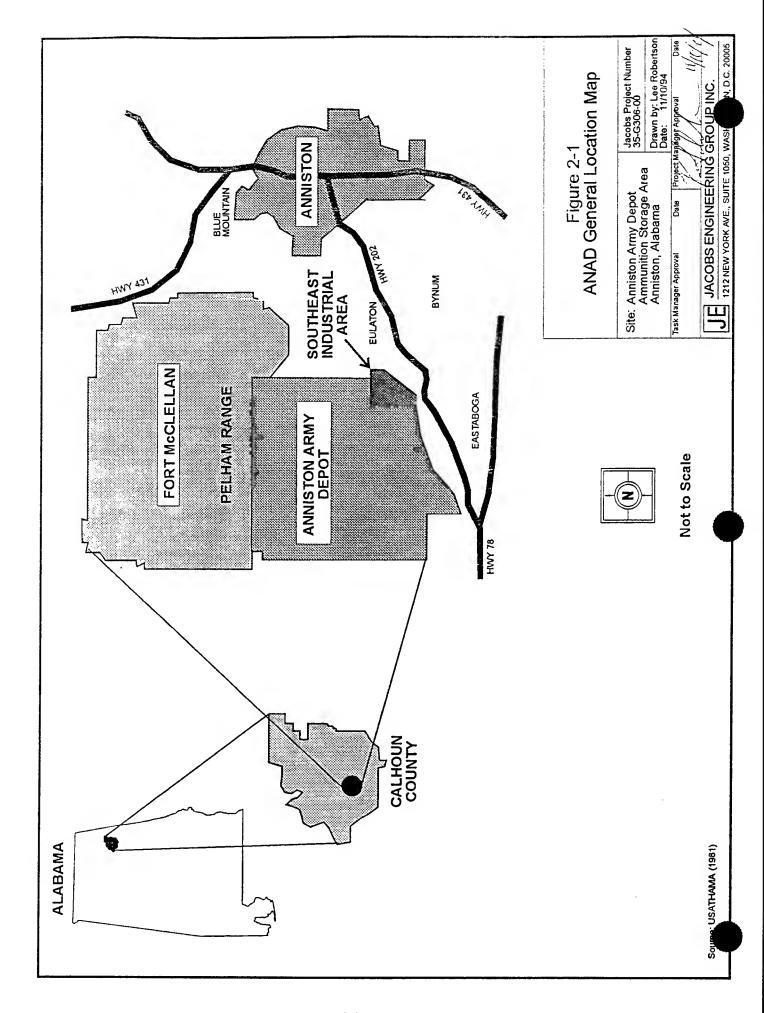
2.1 SITE LOCATION AND DESCRIPTION

2.1.1 Regional Setting

ANAD is located in northeastern Alabama as shown in Figure 2-1. It is 110 miles west of Atlanta, Georgia, 50 miles east of Birmingham, Alabama, 100 miles north of Montgomery, Alabama, and 25 miles south of Gadsden, Alabama, in the southwestern section of Calhoun County; the towns of Eulaton and Vinnette are less than 2 miles directly east of ANAD. The City of Anniston is located within 10 miles east of ANAD; it is surrounded by the suburban areas of Westend-Cobb Town, Blue Mountain, Oxford, and Hobson City. The location of the site with respect to major population centers and other topographic features is presented in Figure 2-2.

2.1.2 Demography and Land Use

The 1990 census for Alabama reports that a total of 116,034 persons reside in Calhoun County and a total of 75,674 reside in the Anniston Division of Calhoun County (Table 2-1). The division contains ANAD and surrounding communities of Anniston City, Westend-Cobb Town Census Designated Place (CDP), Blue Mountain Town, Hobson City Town, Bynum CDP, Oxford City, Fort McClellan CDP, Saks CDP, and Weaver City (Bureau of the Census, 1990). The largest population center near ANAD is Anniston, with a population of 26,623.



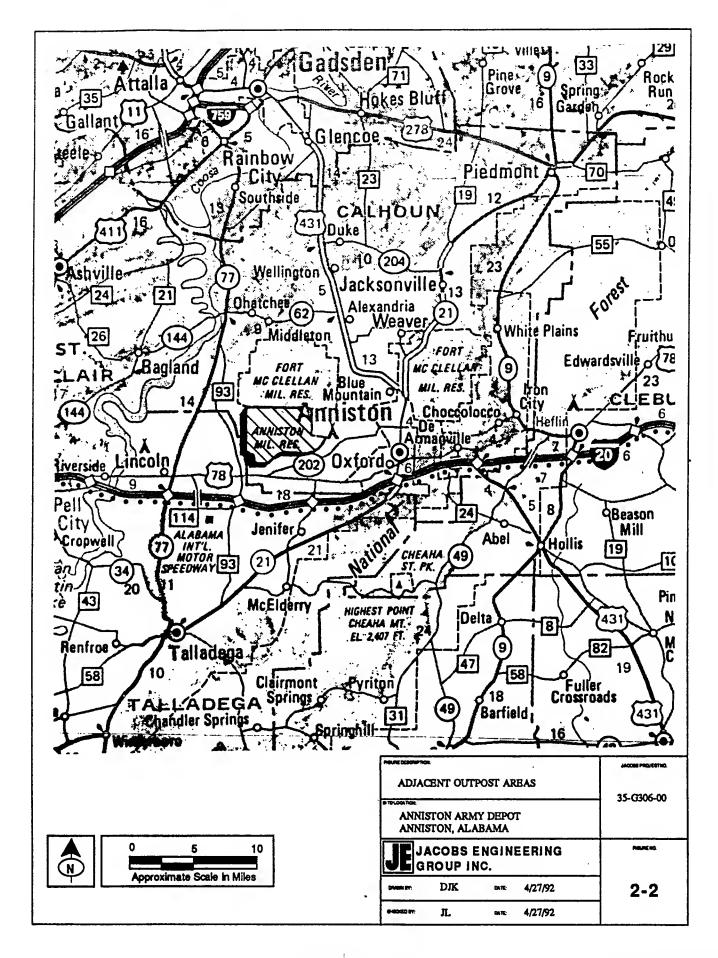


Table 2-1. 1990 Land Area and Population Density for Calhoun County, Alabama

		LAND AREA		
COUNTY, COUNTY SUBDIVISION AND PLACE	ALL PERSONS	SQUARE KILOMETERS	SQUARE MILES	
CALHOUN COUNTY	116,034	1,576.0	608.5	
ANNISTON DIVISION	75,674	532.4	205.6	
ANNISTON CITY	26,623	52.3	20.2	
BLUE MOUNTAIN TOWN	221	0.2	.08	
BYNUM CDP	1,917	8.6	3.3	
FORT McCELLAN CDP	4,128	18.3	7.1	
HOBSON CITY TOWN	794	3.0	1.2	
OXFORD CITY (PT.)	8,333	24.2	9.3	
SAKS CDP	11,138	31.8	12.3	
WEAVER CITY	2,715	6.3	2.4	
WESTEND—COBB TOWN CDP	4,034	13.1	5.1	
CHOCCOLOCCO DIVISION	4,740	241.8	93.4	
JACKSONVILLE DIVISION	15,216	185.7	71.7	
JACKSONVILLE CITY	10,283	17.4	6.7	
OHATCHEE DIVISION	3,367	178.3	68.8	
OHATCHEE TOWN	1,042	12.7	4.9	
SOUTHSIDE CITY (PT.)	54	4.0	1.5	
PIEDMONT DIVISION	7,902	175.5	67.8	
PIEDMONT CITY (PT.)	5,286	21.9	8.5	
WEBSTERS CHAPEL—ALEXANDRIA VALLEY DIVISION	9,135	262.3	101.3	
GLENCOE CITY (PT.)	7	0.4	0.15	
SOUTHSIDE CITY (PT.)	90	0.6	0.23	

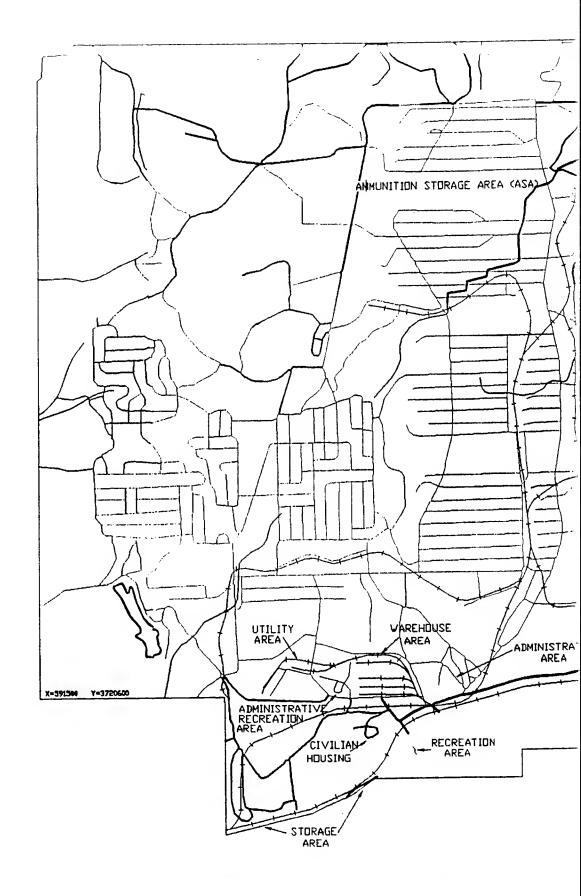
NOTE: When a city or town is in more than one division, PT. signifies that part of that city is in the specified division.

The area is serviced by a network of state and federal highways including Interstate 20, which connects the major population centers of Atlanta and Birmingham. The Coosa River, one of the major drainages in northeastern Alabama, flows in a southwesterly direction approximately 5 miles to the west of the depot. Access to ANAD is restricted by a chain link fence that encloses the entire depot. The major features in the immediate vicinity of ANAD include a series of small communities clustered primarily along the southern and eastern boundaries of the depot. A catfish farm is located approximately 300 feet southeast of ANAD's boundary. ANAD is bordered on the north by the Fort McClellan Military Reservation.

Calhoun County is both industrial and agricultural. Industry is highly diversified and includes the manufacture of textiles, chemicals, steel, paper, and electronic products. In addition to the military installations, such as ANAD and Fort McClellan, other industries in the county include the processing of food and agricultural products. The principal source of agricultural income is poultry; other important sources are dairy products, cattle, hogs, and cotton.

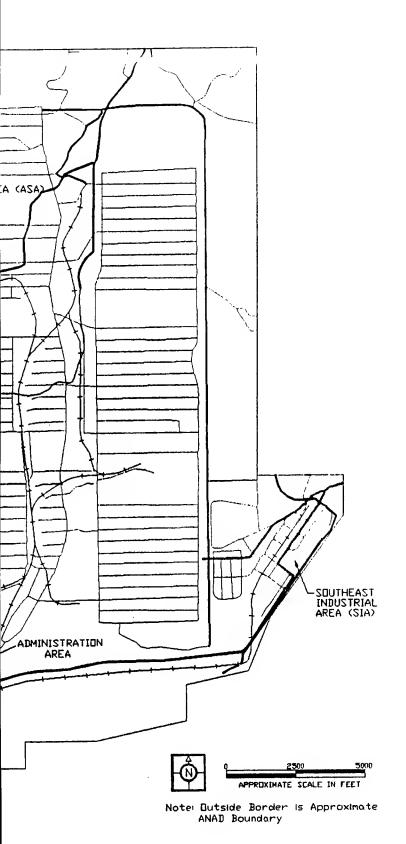
2.1.3 ANAD Site Description

The roughly square-shaped configuration of ANAD in the general facility layout map shown in Figure 2-3 encompasses approximately 15,200 acres. Ammunition storage bunkers occupy the majority of the depot with individual areas, primarily along the southern boundary, allocated for warehouse storage, storage tanks, administration, shop/industrial facilities, and recreation. The main vehicle access is in the south-central portion of the depot via State Highway 202. The site is serviced by Southern Railroad, which maintains an extensive network of spur lines primarily within the southern industrial/storage complexes.



Source: AIIC (American Digital Cartography), US Army Corp. of Engineers, Mobile, Alabama

16/6



ANAD GENERAL FACILITY LAYOUT MAP

SITE NAME/LOCATION
AMMUNITION STORAGE AREA
ANNISTON ARMY DEPOT
ANNISTON, ALABAMA



JACOBS ENGINEERING GROUP INC. Southern Region — Washington, D.C. FIGURE NO. 2-3

ANAD is divided into nine areas, briefly described below:

- Administration Area The Administration Area is located in the south-central
 portion and consists of a series of permanent structures and contains the
 installation headquarters.
- Administration Recreation Area The Administration Recreation Area was the
 original administrative area for the depot and is located to the west of the
 present administration facilities. It consists of a series of structures which house
 the facility engineer and communication center, the fire fighter headquarters, the
 officer quarters, and open mess. The area contains recreational facilities
 including tennis courts, shuffleboard courts, and a picnic area.
- <u>Utility Area</u> This area located directly west of the administration recreation area, is utilized for various depot support operations. Most of the facilities engineer shops are located in this area. It also contains the main motor pool, administrative vehicle repair shops, equipment repair shops, and property disposal facilities.
- <u>Civilian Housing Area</u> The Civilian Housing Area covers approximately 15 acres and is located directly east of the Administration Recreation Area. The area contains approximately 100 family-housing units which are currently unoccupied and are scheduled to be demolished in 1997.
- Storage Area This area is located adjacent to the southern boundary of the
 depot immediately southwest of the Civilian Housing Area. The area contains a
 series of steel tanks used to store vehicles and other major supply items, a
 series of 10 transitory shelters, and a processing facility building.
- Warehouse Area The Warehouse Area is located in the western portion of the depot and includes general supply; the shipping and receiving building; three large storage warehouses; and a series of smaller, general purpose warehouses.
- Recreation Area This area is located to the south of the present
 Administration Area and contains the post commissary, a gymnasium, a filled-in swimming pool, and a bath house.
- Southeast Industrial Area (SIA) This area is located in the southeastern portion of the depot and contains general purpose warehouses, depot maintenance, materiel rebuild and support shops, general supply processing facilities, major items inloading and out-loading facilities, and vehicle test facilities.
- Ammunition Storage Area (ASA) The Ammunition Storage Area occupies the entire central and northern portions of the depot. The area contains approximately 1,300 ammunition storage magazines. An ammunition maintenance workshop complex is located in the center of the ASA. This complex consists of the operating buildings required for maintenance, demilitarization, and inspection of all types of ammunition and ammunition components. Other facilities located within this service and storage area are the Lance Missile Fueling Facility and ammunition disposal areas used for the disposal of out-of-date and deteriorated explosives.

2.2 SITE HISTORY

The U.S. Army has operated ANAD for over 50 years. During that period, the depot mission has progressively expanded to include the storage of munitions and the refurbishment, testing, and decommissioning of combat vehicles and various types of ordnance. This expanding mission resulted in a changing and evolving approach to the control and management of generated solid and liquid wastes.

The initial mission for the U.S. Army depot at Anniston was munitions storage. Construction operations for the depot were initiated on February 17, 1941, and the first ammunition storage magazines were completed on October 3, 1941. The facility was officially designated as the Anniston Ordnance Depot on October 14, 1941.

During World War II, the mission of the depot was expanded to include a combat equipment storage area, and over 1,230,000 tons of materiel were handled. Although the Ordnance Department operated the depot, the Chrysler Corporation assumed management responsibilities during the later part of 1943; depot operations were the responsibility of a subsidiary of Chrysler known as the Anniston Warehouse Corporation.

Over the years, Anniston's mission was further expanded to include the overhauling and repairing of ordnance vehicles; fire control and small arms rebuild from the Augusta Arsenal (closed in 1954); modification of M48A1 tanks and M67 flame throwers; calibration support for the southeastern states; and logistics support for the Lance missile, Shillelagh and TOW systems, and the Dragon missile. The bulk of this work was conducted in the SIA.

On August 21, 1962, as a result of Army reorganization, the depot was redesignated a Class II installation under the United States Army Supply and Maintenance Command and was retitled Anniston Army Depot. In July 1966, with the merging of higher headquarters, the depot was placed under the United States Army Materiel Command, which was redesignated the U.S. Army Materiel Development and Readiness Command in January 1976.

Currently, ANAD is one of the major employers in the Anniston area. Approximately 3,900 people work at the depot, but live off-site. Five military personnel and dependents reside on the depot grounds in military housing.

2.3 PREVIOUS INVESTIGATIONS

ANAD is participating in the Department of Defense Installation Restoration Program, which was established in 1978 to identify and evaluate past Department of Defense hazardous waste sites and to control the migration of hazardous contaminants from these sites. A number of studies have been conducted at ANAD to support the Installation Restoration Program as well as other environmental management programs. These studies have yielded a significant amount of information on the extent of contamination at ANAD. However, only a small portion of this work has been performed in the ASA. Some of the studies have resulted in the alteration of certain waste management practices and the implementation of remedial operations.

In September 1979, the Mobile District of the Corps of Engineers contracted with Environmental Science and Engineering, Inc. (ESE) to investigate four solid and hazardous waste disposal facilities. Three of the facilities located in the SIA and a fourth, the TNT Washout Facility Leaching Beds (SWMU #11) located in the ASA, were evaluated to determine the potential for contamination of groundwater, surface water, and air, and to recommend actions to bring the sites into compliance with state and federal regulations. At SWMU #11, four wells were sampled to determine groundwater quality in the shallow aquifer, and two surface water samples from a stream just east of the site were analyzed.

In 1987, NUS Corporation (NUS) conducted a Facility Assessment as required by the Resource Conservation and Recovery Act (RCRA) to evaluate releases of hazardous waste or hazardous constituents (NUS, 1987). The assessment provided information on 38 SWMUs (13 located in the ASA), evaluated the potential for release to the environment, and determined the need for further investigation. The report discussed each identified SWMU in terms of site description, waste characteristics, migration pathways, and evidence of release. For those SWMUs in the ASA, NUS

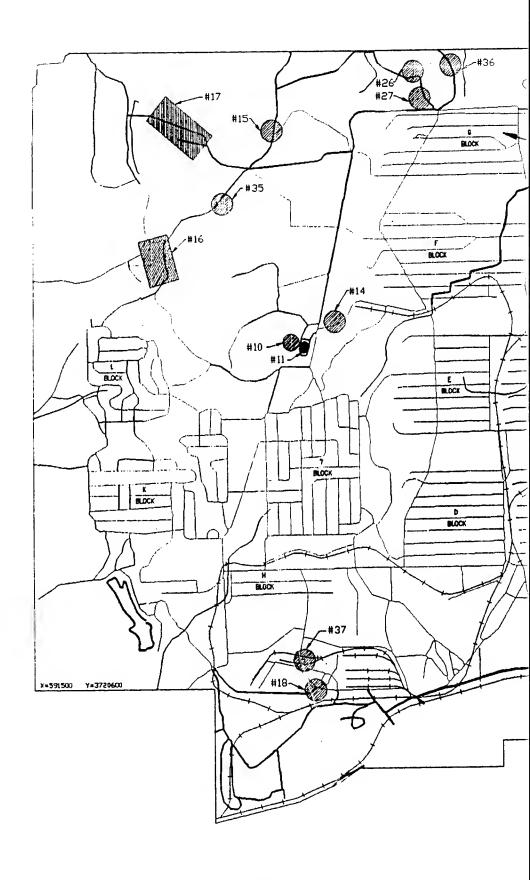
recommended no further action for seven SWMUs (#5, #14, ,#18, #26, #27, #36, and #37), referred one SWMU (#34) to another environmental program office for further assessment, recommended a sampling investigation at four SWMUs (#10, #15, #16, and #17), and recommended a remedial investigation at one SWMU (#11).

In 1989, ESE prepared a remedial investigation report. The report (ESE, 1989) presented a comprehensive overview of the past and present contaminant remediation activities for all of ANAD, including the ASA. Information compiled included a summary of generated wastes, SWMU descriptions, a summary of on-depot soil boring data, a history of groundwater chemistry data for the SIA, a summary of preliminary results of off-depot investigations, and an off-depot endangerment assessment.

2.4 SWMU DESCRIPTIONS

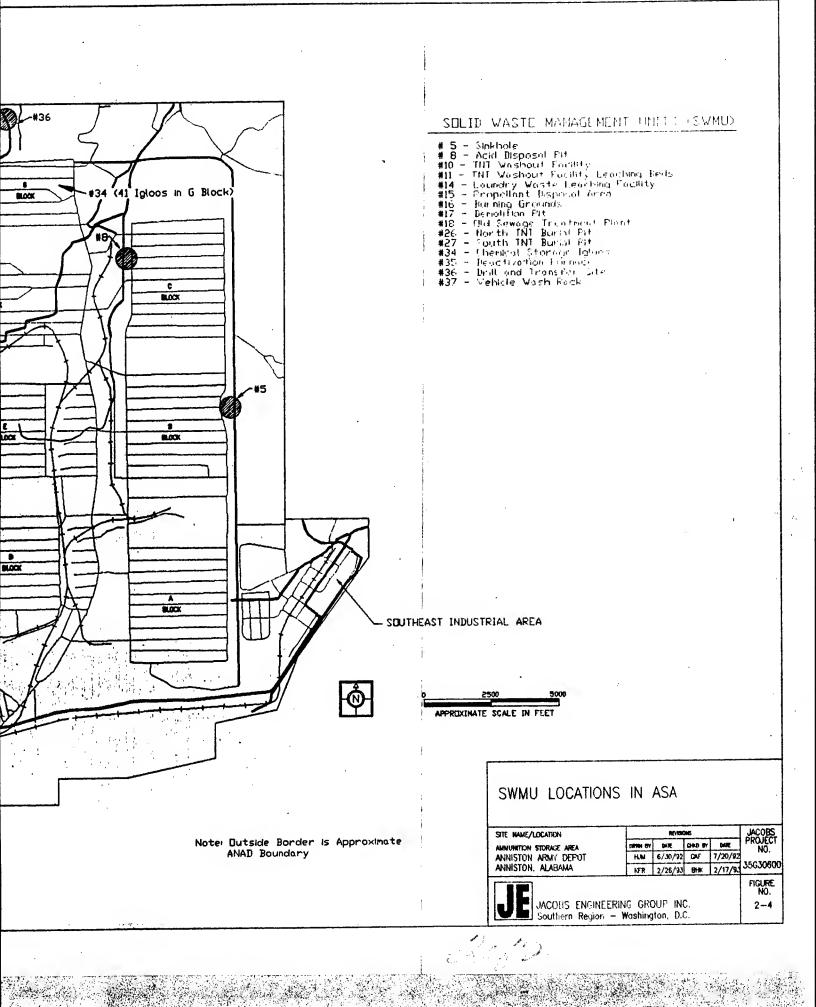
Thirteen identified SWMUs are located within the ASA. Two other SWMUs, located within the Administration Area, are included in this ESI. These 15 SWMUs are areas known or suspected to be contaminated from past waste disposal, treatment, or storage practices. At ANAD, SWMUs are assigned numbers according to a convention started in the 1980s (ESE, 1989) which also applies to SWMUs located in the SIA. Hence, SWMUs addressed in the ESI are not consecutively numbered. A brief history and description of each SWMU that was evaluated follows. Locations are shown on Figure 2-4.

SWMUs that are currently in use are identified as such in the individual SWMU descriptions. Investigations reported in this ESI were concerned with evaluation of potential contaminant releases during past or existing (at the time of investigation) operations. Four of the SWMUs investigated have RCRA permit applications under review by ADEM. Any potential contamination from on-going operations at these four SWMUs will be addressed under the forthcoming permits.



Source: ADC (American Digital Cantography), US Army Corp. of Engineers, Mobile, Alabama

1.10



2.4.1 SWMU #5 - Sinkhole

The Sinkhole (SWMU #5) is located immediately east of the 900 Row of B-Block between Alabama Avenue and the Restricted Area perimeter patrol road. This SWMU is approximately 0.63 acres in area, 40-50 feet deep, and contains a pond. Previous reports state that the Sinkhole was developed from geologic processes that form karst topography (ESE, 1989). Although karst origin of the Sinkhole is a possibility because of the underlying carbonate strata, some doubt exists concerning the origin of this feature. The depression was suspiciously not mapped by the USGS and Alabama Highway Department during a 1977 survey of natural sinkholes and depressions in this area of Calhoun County (Technos, 1981).

The steep sides of the sinkhole are atypical of other sinkholes in the area (Ewers Water Consultants, personal communication, 1993). Aerial photographs of the area taken before ANAD was constructed show the same steep-sided nature of the Sinkhole (ANAD-RMD files). This suggests that either the feature has enlarged recently (within the last 100 years or so) or was significantly disturbed by human activity before ANAD was built. Warman and Causey (1962) discuss historic iron ore and chert mining in this portion of Calhoun County. Iron ore was mined from Cambrian and Ordovician formations as early as 1848. The area of ore deposits extends from Cane Creek/Pelham Range north and eastward to Oxford. Chert pits excavated for road metal are also common in siliceous dolomites of the region.

SWMU #5 was used periodically from 1942 to 1978 for disposal of various wastes including construction debris, burned ammunition components, railroad ties, and empty containers (USTHAMA, 1978). During a survey for the 1978 Installation Assessment, containers labelled ammonium hydroxide, sodium hydroxide, and sodium hypochlorite were observed in the area. In 1978, drums and other large debris were removed from the Sinkhole; no visual evidence of contamination was noted (USAEHA, 1986).

2.4.2 SWMU #8 - Acid Disposal Pit

The acid disposal pit (SWMU #8) is a concrete pit located in the Chemical Limited Area (CLA) of the ASA between C-Block and G-Block. SWMU #8 was used circa 1959-1961 before the Old Lagoons Facility (SWMU #12 in the SIA) was placed in service. The Installation Assessment Report (USATHAMA, 1978) indicates that wastes disposed in the pit included paint stripper, alkalies, cadmium, phosphoric acid, and stripped paint containing lead and zinc chromate. These wastes were possibly contained in drums. The concrete pit was reportedly filled in with sand after its use as a disposal pit was discontinued (USATHAMA 1978). The sand was used previously for cleaning metal parts. The area in vicinity of the pit is now overgrown with trees and grass.

Previous reports available to Jacobs at the time of the field investigations did not contain sufficient information or information of sufficient quality to determine an exact location for the pit with respect to identifiable landforms or site buildings. Maps showing the location of SWMU #8 cover areas of the CLA ranging from approximately 90,000 (USATHAMA, 1978) to greater than 280,000 square feet (ESE, 1989). A map produced for the ESI work plan shows an assumed location of the pit in a wooded area west of storage igloo C-809, east of Building 611, and south of a bauxite storage area. See Section 5.3.2 for additional detail on the search for SWMU #8.

2.4.3 SWMU #10 — TNT Washout Facility

The TNT Washout Facility (SWMU #10) is located in the central portion of the ASA approximately 3,300 feet north of I-Block. It consists of a large metal building (Building 172) and a waste water sedimentation tank located approximately 100 feet north/northeast of the building. TNT washout operations were conducted from 1948 until the mid 1950s. Access to the interior of the building is restricted due to explosive hazards.

A waste slurry stream from ammunition washout operations discharged from the building to the sedimentation tank. Overflow from this tank then discharged through a pipe under the road into leaching beds (SWMU #11). The facility was closed in the mid 1950s except for occasional use in a pelletizing operation through the late 1960s, and is currently inactive.

The sedimentation tank is approximately 6 feet wide, 10 feet long, open-topped at ground level, and filled with water. The area around the tank is partially paved and graveled with weeds growing in spots. A small drainage ditch is located beyond the sedimentation tank along the northern border of the facility area.

2.4.4 SWMU #11 — TNT Washout Facility Leaching Beds

The TNT leaching beds, (SWMU #11) are located across the road from SWMU #10, east of Building 172. Overflow from the sedimentation tank was directed into the beds for treatment and disposal. The leaching beds are described as a series of 24 parallel soil troughs located at the surface, each approximately 70 feet long, 8 feet wide (USATHAMA, 1978 and USAEHA, 1986), and 4 feet deep (personal communication, ANAD-RMD and ANAD-Safety). Overall, the beds occupy an area of approximately ¾ acres. A small intermittent stream is located along the east side of the SWMU within 15 feet of the beds. A 1 to 2 foot earthen berm was constructed along the eastern perimeter of the beds to prevent direct runoff into the stream. Intrusive activities within the bed are limited because of an explosive hazard.

From 1948 until the mid 1950s, the leaching beds received waste water from the TNT Washout Facility sedimentation tank. From the mid 1950s through the late 1960s, the beds were also used occasionally for disposal of wash water from pelletizing system filters. In April 1978, an unknown quantity of octol pink water was discharged to the beds at a concentration of 15 parts per million. The beds have not been used since April 1978. In 1985, the area was leveled and capped with 2 to 5 feet of native clay, but there was no official closure. Remaining explosive contaminated waste/soil was estimated to be three to four feet thick (USASEHA, 1986). An Army report by the USAEHA from 1986 notes that "soil and three of the groundwater samples (AAD14 and 2 of the dug wells) contained high concentrations of 2,4,6-TNT and RDX" (USAEHA, 1986).

Five monitoring wells were installed around the leaching bed during two previous environmental studies. Wells W2-19 and W2-20 were drilled upstream and downstream of the beds in approximately 1978 by the U.S. Army Environmental Hygiene Agency (USAEHA). Wells AAD-13, AAD-14, and AAD-15 were installed around the perimeter of the leaching beds in 1980 by ESE. Reports suggest that some of the wells (well numbers unknown) may have been damaged or destroyed during the 1985 capping of SWMU #11. "Only the upgradient wells remain" was stated in an evaluation of SWMU #11 (USAEHA, 1986).

2.4.5 SWMU #14 — Laundry Waste Leaching Facility

The Laundry Waste Leaching Facility (SWMU #14) is located approximately 950 feet northeast of the TNT Washout Facility (Building 172) on the north side of the road leading to the Ammunition Workshop from Elwood Avenue. The laundry (Building S-162, demolished circa 1973) was used from 1948 to 1973 to wash the clothing of workers who handled explosives. One machine was used to wash 7 to 8 loads of clothing per day. At capacity, approximately 1,400 to 1,600 gallons per day of waste water containing soap, lye, and entrained explosive materials were generated. Waste water from the washing machine appears to have been piped to an above grade sump to remove heavy solids and then to the leaching bed. Runoff from the leaching bed area discharges to a nearby stream.

2.4.6 SWMU #15 - Propellant Disposal Facility

The Propellant Disposal Facility (SWMU #15) is located in the northwest portion of the depot approximately 2400 feet northeast of Building S-662 along the east side of the road to Gate E-1. Propellant disposal operations were conducted at the site from approximately 1968 to 1978. SWMU #15 is currently inactive and overgrown with brush. Topography of the SWMU #15 area slopes gently to the southwest. A drainage ditch is located along its southwestern boundary.

SWMU #15 consists of a one acre, fenced field on which two open, concrete-lined disposal units were constructed for burning propellants from Lance missiles. The propellant disposal units consist of concrete pads and small incinerators. One unit was used to dispose of unsymmetrical dimethylhydrazine (UDMH); the other was used to dispose of inhibited red fuming nitric acid (IRFNA). Diesel fuel was used to help ignite and burn the IRFNA. Concrete troughs connect the pads and incinerators to sumps which appear to have been designed to contain spills of propellant. The sump servicing the northernmost unit contains a metal box. Limestone gravel was placed in the sump servicing the southern unit.

Fuel for the incinerators was supplied either from a diesel fuel tank or liquified petroleum (LP) gas tank. A diesel fuel tank (approximately 500 gallon capacity) remains onsite while only a distribution manifold for the LP gas was observed. No documentation of spills at SWMU #15 has been found in this or previous investigations.

2.4.7 SWMU #16 — Burning Ground

The Burning Ground (SWMU #16) is located in the northwestern portion of the depot on the Gate 2 to Gate E Road approximately one mile southwest of Building S-662. The site covers approximately 35 acres in a small, flat-floored valley. Trees and other vegetation have been cleared from most of the area. SWMU #16 has been used for open burning (OB) operations for over 40 years. The site remains an active OB facility. A RCRA Subpart X Permit application has been submitted to ADEM for the OB operation. The application is currently under review.

The actual burning area covers approximately 6 acres of the valley floor and measures approximately 350 feet by 750 feet. In the past, explosives and explosive-contaminated materials were placed in open, unlined soil burn beds, soaked with diesel fuel, and ignited.

Three pits formerly used in burning operations are located at SWMU #16. Pit number 1 was used for burning of "Comp. B" explosive compound. Octol was burned in pit number 2. Materials burned in pit number 3 include white phosphorus, hexachloroethane, octol, and possibly other hazardous material. The burning process at times resulted in incomplete destruction of the wastes; residues were not removed from the pits (personal communication, ANAD-RMD). Jacobs was requested by ANAD Safety Officers to avoid these areas during the investigation because of the extremely hazardous nature of the buried materials.

Current burning operations are conducted in fifteen steel burning pans, a burn cage, or a fenced dunnage burning area. Materials are mixed with excelsior and ignited with an ignitor and non-electric fuse. Materials commonly burned include scrap explosives and explosive-contaminated material, demilitarized ammunition, containers, boxes, and inert materials. Remaining salvageable materials are removed to the salvage yard; ash is handled as hazardous waste.

Soil around the former burn beds was excavated and removed because it contained elevated levels of lead. The current practice is to remove lead foil from the propellant before it is burned (personal communication from ANAD Burning Ground Supervisor). Intrusive sampling activity within this SWMU is restricted due to explosives hazards.

2.4.8 SWMU #17 — Demolition Pit

The Demolition Pit (SWMU #17) is located near the northwest corner of the depot approximately 2400 feet northwest of Building S-662. The demolition pit is located in a cleared area that occupies approximately 40 acres of a small valley. There is a small intermittent stream at the base of the valley. The pit is approximately 5 acres in area and contains multiple soil detonation sites located either at or beneath the surface (ESE, 1989). Aerial photographs show the Demolition Pit has been operated for at least 40 years. SWMU #17 remains an active open detonation (OD) facility. A RCRA Subpart X Permit application has been submitted to ADEM for the OD operation. The application is currently under review.

The pit is used for destruction of high explosive items including cartridges and projectiles of various calibers, bombs, grenades, rockets, warheads, mines, etc. Items may be detonated at depths ranging from ground level to approximately 14 feet depending on the type and amount of explosive material (USAEC, 1978). Debris from demolition pit operations (e.g., shell casings, bomb and rocket fragments) is scattered around the area by the explosions. Encountering unexploded ordnance is always a possibility at SWMU #17. Intrusive sampling activity within this SWMU is restricted due to explosive hazards.

2.4.9 SWMU #18 — Old Sewage Treatment Plant (STP)

The Old Sewage Treatment Plant (SWMU #18) is located in the southwestern area of the depot on the south side of Gadsden Avenue, south/southwest of the ANAD Administration Area. (Although this SWMU is not within the ASA boundaries, it is within the scope of the ESI). The Old STP was used from 1942 to 1982 to treat domestic sewage from the west area of the depot. The treatment plant was originally designed to treat wastewater at a capacity of 75,000 gallons per day. Original design drawings show a bar rack, Imhoff tank, trickling filter, and sludge-drying beds. A final clarifier and effluent chlorination tank were added to the STP in 1975. Effluent was discharged to Eastaboga Creek which flows past, but not into, the state fish hatchery located at the ANAD southwest boundary.

The area surrounding the abandoned STP is graveled and covered with grass. The trickling filter is currently used as a fire fighting training pit. For this use, the filter sludge discharge pipeline was plugged and the filter was lined with firebrick. During fire-fighting training exercises, the filter is filled (as needed) with water, diesel fuel is poured on the water, ignited, and extinguished. An emergency oil/water separator was added to prevent accidental overflow of diesel fuel from the filter.

2.4.10 SWMUs #26 and #27 - North TNT Buria! Pit and South TNT Buria! Pit

The North and South TNT Burial Pits (SWMUs #26 and #27) are located in a remote section of the depot near the northern installation boundary along the road leading from Gate E-1 to the Chemical Limited Area gate on the north side of G-Block. Aerial photographs from 1969 clearly show these pits as open rectangular excavations. Estimated dimensions taken from these photographs indicate both pits are roughly the same size, approximately 50 feet long and 25 feet wide. SWMUs #26 and #27 were backfilled and are currently well vegetated. They show little evidence of past burial activities except for immature trees and four posted "Closed Landfill" warning signs around each pit. The area surrounding the pits is heavily wooded. Intrusive activities within these SWMUs is restricted due to possible explosive hazards. Reports suggest that TNTcontaminated wastes and decontamination dunnage from project "Z" may have been burned and buried in these pits (ESE, 1989). Documentation confirming waste burning or burial has not been found in this or previous investigations. ESE, 1989 quotes a "Memorandum of Record (Williams, 1982)" which "stated that between 1967 and 1969 decontaminated dunnage from "Project Z" was burned" at "an 'Old Burning Pit north of the Chemical Exclusion Area'". However, Jacobs was unable to locate this memorandum during the ESI or find any independent confirmation of this statement. Available aerial photographs show no excavations at the sites in 1957 although both sites have been cleared of trees. In the 1969 photographs, excavations and areas cleared of vegetation around the pits are evident at both sites. Aerial photographs from 1977 show both sites overgrown with small trees; outlines of the pits are visible in the clusters of trees.

2.4.11 SWMU #34 — Chemical Storage Igloos

Forty-one Chemical Storage Igloos (SWMU #34) are located in G-Block inside the Chemical Limited Area (CLA). M55 rockets which contain GB and VX nerve agents are stored in these igloos. The rockets have been declared obsolete and are classified as hazardous waste.

The igloos in SWMU #34 are earth-covered, semicircular arches with a maximum ceiling height of approximately 13 feet and floor dimensions of approximately 26.5 feet wide and 60 to 80 feet long. Gutters are located inside the igloos along the base of the sidewall and slope gently toward the front of the igloo. The gutters are connected to 4-inch pipes which extend through the front wall of the igloo and discharge to outside. The igloos are equipped with air vents located at the top of the back wall and on the door.

Monitoring for nerve agent leaks from the M55 rockets is performed within the igloos on a weekly basis. Any rocket discovered to be leaking is packed in a special leak-proof container, which is also stored in one of the forty-one igloos. These weapons were previously stored in igloos at F-Block until they were moved to their present location during the 1970s. Agent decontamination wastes are stored in the igloos in 55-gallon drums.

A RCRA Hazardous Waste TSD Part B Permit application has been submitted to ADEM for forty-one storage igloos. The application is currently under review. Access to this SWMU is restricted due to the toxic chemical hazard.

2.4.12 SWMU #35 — Deactivation Furnace

The Deactivation Furnace (SWMU #35) is located in Building 393 in the northwest quarter of ANAD along the southeastern side of the Gate 2 to Gate E Road. SWMU #35 lies approximately 1500 feet southwest of Building S-662 and 2400 feet northeast of the Burning Ground (SWMU #16). Building 393 was constructed on a concrete pad and is surrounded by a gravel-covered parking lot. A small stream is located approximately 175 feet south/southwest of SWMU #35.

The facility is used to deactivate small arms munitions up to 50 caliber with less than 600 grains energetic material. Munitions are fed into a rotating retort where propellants are burned and lead projectiles are melted. Empty brass and steel shell casings are collected in a bin; molten lead is collected in an ingot mold. Particulate emissions from the furnace

are collected in a bag house where the dust is drummed and stored as a hazardous waste. Although the furnace is currently inactive, operations will resume upon approval of the RCRA Part B Permit application which ADEM is currently reviewing.

A leaking 1,000 gallon underground diesel fuel tank was located approximately 30 feet from the furnace building. Circa 1990, the tank was removed and surrounding contaminated soils were remediated in accordance with ADEM requirements. An above ground fuel tank was installed to replace the underground tank.

2.4.13 SWMU #36 — Drill and Transfer System Site

The Drill and Transfer Site (SWMU #36) is located approximately 900 feet north of G-Block between G-Block and the northern depot boundary. The site was constructed circa mid-1970s and was used until the early 1980s. SWMU #36 is currently abandoned. Three conex storage containers, a small laboratory building, and a concrete-floored pavilion with a corrugated metal roof remain in the fenced one acre site. Topography slopes moderately to the east/northeast from SWMU #36 toward a small stream approximately 150 feet from the fence.

Chemical agents were transferred from leaking chemical munitions into ton containers (ESE, 1989). Agent transfers were performed at the pavilion in glove boxes under negative pressure. Exhaust air from the glove boxes was filtered through charcoal and monitored for chemical agents. The floor of the pavilion was designed to contain any agent spills and the decontaminating fluids used to clean up a spill.

Other reports indicate the site was used for chemical quality assurance testing of GB-containing munitions (USATHAMA, 1978). Small quantities of agent were removed from rounds and tested. All of the agent extracted from the munitions was consumed in the tests.

2.4.14 SWMU #37 - Vehicle Wash Rack

The Vehicle Wash Rack (SWMU #37) is located in the western end of Building 45 along the east side of Gadsden Avenue approximately 1000 feet south of the Restricted Area (ASA) fence in the Utility Area. Although this SWMU is not within the ASA boundaries, it is within the scope of the ESI. The wash rack is designed with two wash bays and a water heating/steam generating unit. Kerosene fuel for the water heating unit is stored in an above ground tank located on the north side of the building.

One bay is used for general washing of depot vehicles, the other for steam cleaning operations. Waste waters from cleaning operations are collected through floor drains, pumped through an above ground oil/water separator and discharged to the sanitary sewer system. Oils and solids are collected in drums for disposal.

SECTION 3 SITE PHYSICAL CHARACTERIZATION

This section characterizes the physical setting of the Anniston Army Depot (ANAD). The Ammunition Storage Area (ASA) constitutes approximately 90% of the ANAD acreage. The discussion includes descriptions of the physiography, natural resources, ecology, climatology/meteorology, geology, and hydrogeology of the project site and vicinity.

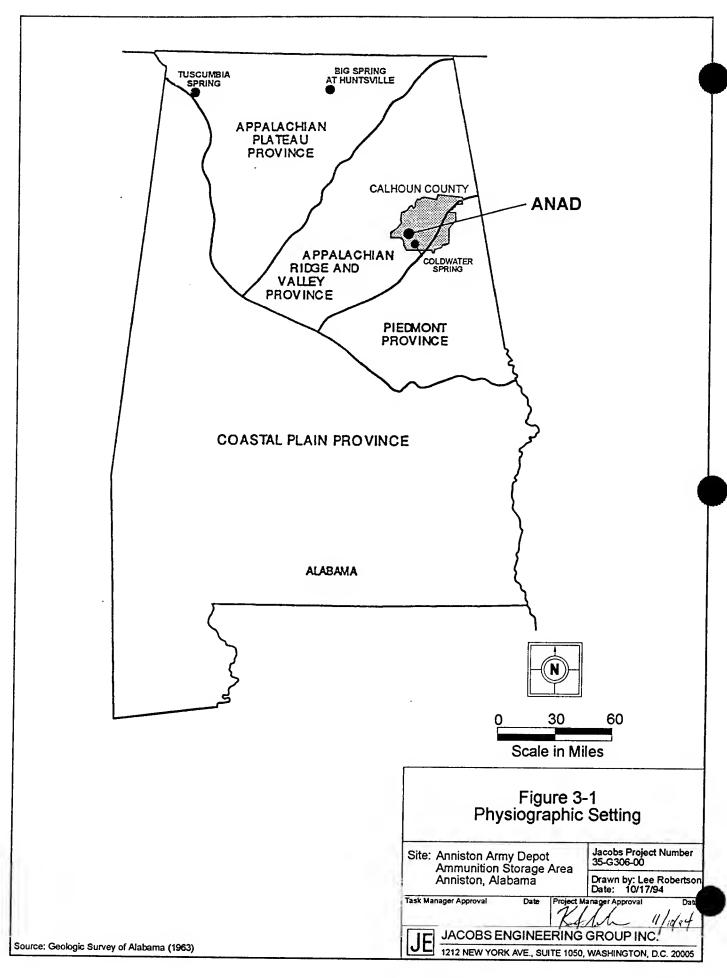
3.1 PHYSIOGRAPHY

3.1.1 Regional Physiography

ANAD is located in the northeastern portion of Alabama in the southern portion of Calhoun County (see Figure 2-1). The County is located almost entirely within the Valley and Ridge physiographic province of the Appalachian Highlands (Fenneman, 1938). The Valley and Ridge physiographic province is characterized by sharply folded consolidated strata which tend to form northeastwardly trending, sub-parallel valleys and ridges. A small area in the eastern-most part of Calhoun County is located in the Piedmont physiographic province (see Figure 3-1).

3.1.2 Local Physiography

ANAD is located near the western end of the Weisner Ridge District of the Valley and Ridge physiographic province. Ground elevations range from about 600 feet to 1000 feet (National Geodetic Vertical Datum [NGVD]). ANAD is characterized by gently rolling wooded ridges and valleys. Streams draining the ASA are tributary to the Coosa River located approximately 15 miles west of the site.



3.1.3 Topography and Drainage

The topography of Calhoun County ranges from flat to gently rolling in the western part and is mountainous in the eastern part attaining elevations of approximately 2,100 feet NGVD at Choccolocco Mountain. Coldwater Mountain is the most predominant topographic feature immediately adjacent to ANAD and has a peak elevation of 1,709 feet NGVD. Elevations at ANAD range from near 600 feet to about 1,000 NGVD.

The County contains six major drainage basins. The largest is the Choccolocco Creek, which drains the extreme eastern and southern parts of the County. The stream flows south through a narrow valley bordered on the east by Bryner and Horseblock Mountains (southwestern Cleburne County) and on the west by Choccolocco Mountain (southeastern part of Calhoun County) and then westward to the Coosa River. Nances and Terrapin Creeks drain the extreme northeastern corner of the county and flow northward to the Coosa River. Cane, Chatchee, and Tallaseehatchee Creeks drain the area west of Choccolocco Mountain to the Coosa River. ANAD is located primarily in the Cane and Choccolocco watersheds.

3.2 NATURAL RESOURCES

3.2.1 Regional Natural Resources

Developed regional natural resources in the ANAD area include timber, iron ore, chert gravel, clay (mined), and water from Coldwater Spring. The mountains, forests, and streams in the area are used extensively for recreation. Recreation facilities include Logan Martin Lake near Pell City, approximately 15 miles west of the site. The lake is the impoundment above Logan Martin Dam on the Coosa River. Dry Creek, which extends along the southeast boundary of ANAD, has been classified as a fish and wildlife stream by the State of Alabama. The Talladega National Forest is located in the mountainous areas to the east and south of the site.

3.2.2 ANAD Natural Resources

Historically, ANAD has been the site of mostly unused forested land and agricultural operations. No mining activities have been reported on the project site, although iron ore mining has occurred in the Pelham Range and Cane Creek area (Warman and Causey, 1962).

One of the most significant natural resources at ANAD is timber. Logging of the abundant loblolly and longleaf pine forests located in the ASA has been practiced for years as a forestry management tool and for its economic benefit.

During the four decades that the ASA has been a restricted access area, wildlife populations have proliferated, generating the need for management of deer and wild turkey populations. Wildlife resources are controlled through periodic permitted hunting and trapping.

3.3 ECOLOGICAL EVALUATION

Regionally, the ASA lies in the transition zone between the Appalachian Valley and Ridge and the Piedmont physiographic province. This transition zone is typified by uneven terrain, with isolated conspicuous mountains and mountain ridges. The ASA exhibits topographic relief typical of the inter-mountain areas, with elevations ranging from greater than 1000 feet to less than 700 feet above mean sea level. The majority of the land cover in this physiographic transition zone is mixed deciduous-coniferous forest. The ASA is bounded to the north and east by woodland habitat (Fort McClellan), to the south by the industrial portions of the depot, to the southeast by the Southeast Industrial Area (SIA), and to the west by farmland. A 6-foot chain-link fence presents an entry/egress obstruction for wildlife.

Selected flora and fauna that constitute the biota of the immediate ASA area are listed in Appendix A. Additional lists of the flora and fauna of Calhoun County are provided in the Anniston Army Depot Installation Assessment (USTHAMA, 1978). Flora and fauna include trees and shrubs, and a broad inventory of vertebrates, including mammals, amphibians and reptiles, and resident and transient birds. The ASA is dominated by woodland habitat, and is managed in accordance with the current Anniston Army Depot Natural Resources Management Plan.

Woodland communities that predominate are a mixture of 50% pine (dominated by loblolly and longleaf), 25% hardwood (dominated by white oak, southern red oak, yellow poplar, and blackjack oak), and 25% pine/hardwood codominant. As with many plant communities, predominance is largely a function of fire frequency and intensity. Conifers, which are more tolerant of fire, dominate in drier areas and in areas subject to frequent burning. Hardwood species predominate in the areas of greater relief and in wetland areas and are especially prevalent where fire is infrequent.

The northwest portion of the ASA is mostly undisturbed woodland. Vegetation along the numerous roads throughout the ASA is primarily grass species, which are managed by periodic mowing. Vegetation in the areas around the ammunition storage igloos is composed mainly of broomsedge, dog fennel, pine seedlings, sweetgum, briar, and lespedeza and bermuda grasses. This vegetation is managed through application of various herbicides. Vegetation within the Chemical Munitions Storage area consists mainly of various grasses. Intensive management through mowing and the application of growth inhibitors maintains the grass at a height of 8 inches or less.

Resident indigenous large mammal and avian species include deer, fox, coyote, bobcat, rabbit, raccoon, opossum, turkey, quail, and dove. Waterfowl are not known to use any areas of the ASA. The Chemical Munitions Storage Area supports a resident deer population that is prevented from egress by the 8-foot-high double fencing that surrounds the area, and is managed by trapping and removal.

Although no federal or state-designated threatened or endangered species are known to occur in the ASA area, habitats at ANAD may be suitable for three endangered vertebrates observed in Calhoun County, and for a fourth, for which there are unconfirmed sightings at the ASA. Several areas at ANAD were determined by the US Fish and Wildlife Service (1979) to be forested with trees of adequate, though marginal, age and size classes for habitation by red-cockaded woodpeckers (Picoides borealis). At least one cave is present at the ANAD which may be suitable roosting habitat for the gray bat (Myotis grisescens) and the Indiana myotis (Myotis sodalis). There are no sightings of other evidence to substantiate possible presence of any of these animals. There have been reported sightings of dark-phased mountain lions (Felis concolor) by ANAD personnel, but none of these sightings has been confirmed. In addition, Dry Creek, which drains a portion of the SIA, joins Coldwater Creek downstream of ANAD. Coldwater Creek is designated as critical habitat for the pygmy sculpin, a small fish which is listed as a threatened species.

A tributary of Cane Creek which exits the ASA to the north represents the most conspicuous surface drainage feature. Two perennial streams and several intermittent streams that feed this tributary drain the north and central portions of the ASA. Several intermittent streams also drain the southwest and southeast portions of the ASA, flowing into the Eastaboga Creek system and the Dry Creek system, respectively. The invertebrate biota present in Cane Creek are listed in Appendix A, along with the aquatic species that have been observed in other local aquatic communities (Dry Creek, Coldwater Creek, and Coldwater Spring) and may occur in the streams at the ASA. Various minnows are the only fish species known to occur in Cane Creek. Except for flood incidents, larger species are probably excluded due to the small size of this creek. Aquatic environments at the ASA also include several manmade ponds of one-quarter acre or less. They probably contain various minnows, catfish, and sunfish.

Wet areas and wetland-type areas are common in hollows along intermittent streams in the ASA, particularly in the northwestern and eastern portions. Vegetation in these areas is dominated by alder, witch hazel, Carolina willow, water oak, willow oak, persimmon, dogwood, black willow, needle rush, and typical wetland species.

3.4 **CLIMATOLOGY/METEOROLOGY**

3.4.1 Regional Climatology/Meteorology

The ANAD area has a moist, temperate climate with an average annual rainfall of 53.25 inches. During the period from December through March, rainfall is the heaviest, with March having the greatest precipitation, approximately 7 inches on average. The driest period is from June through October. October, which averages 2.50 inches is the driest month. Average monthly rainfalls for the Anniston area are shown in Table 3-1.

Table 3-1. Monthly Rainfall, Temperature & Wind Speed at ANAD

MONTH	AVERAGE PRECIPITATION (INCHES)	AVERAGE TEMPERATURE (°F)	AVERAGE WIND SPEED (MPH)
JANUARY	5.36	47.9	8.2
FEBRUARY	4.82	54.7	8.8
MARCH	6.82	56.9	8.1
APRIL	5.35	60.8	8.3
MAY	3.99	68.5	6.8
JUNE	3.89	77.8	6.1
JULY	4.23	79.4	5.7
AUGUST	3.80	81.9	5.5
SEPTEMBER	4.15	75.6	6.4
OCTOBER	2.50	61.6	6.2
NOVEMBER	3.35	53.8	7.3
DECEMBER	4.99	49.5	7.8

Source: NOAA, 1988—1990, State of Alabama, Climatological Data Annual Summary, 1990

The mean maximum temperatures for the Anniston area in January and July are 47.9 degrees Fahrenheit (°F) and 79.4°F, respectively. The U.S. Weather Bureau recorded temperature extremes of (-3)°F and 105°F for this area (ESE, 1989). Average monthly temperatures for the Anniston area are shown in Table 3-1.

Seasonal winds for the area are approximately 7 mph on the average. From March through August, the prevailing wind direction is from the south-southwest and will change direction to north-northwesterly in the fall and winter months. Average monthly wind speeds are shown in Table 3-1.

3.4.2 ANAD Climatology/Meteorology

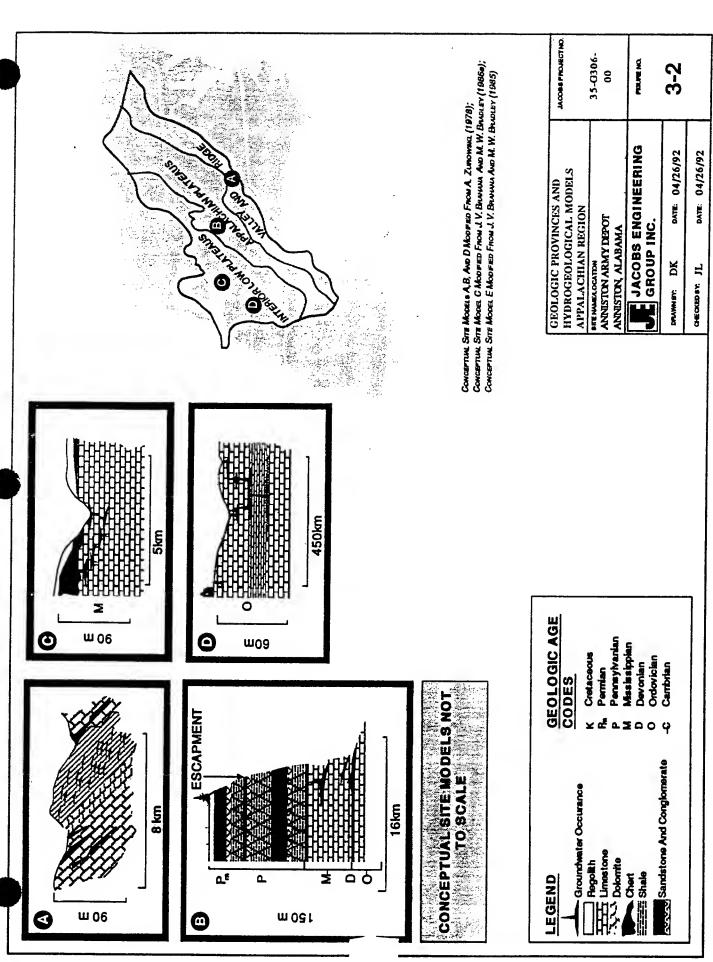
Meteorological data collected on site during the field investigations (from October 1, 1991 to February 29, 1992) include the daily precipitation, temperature and wind direction. Recorded precipitation data show rainfall accumulation to be the greatest during the month of February, with an approximate rainfall total of 6.31 inches. In the month of October, precipitation is minimal, averaging only 0.20 inches of rainfall. Average monthly temperature during this period was recorded at 61.6°F. Wind direction is generally from the north-northwest, changing periodically, for short periods, to south-southwesterly.

3.5 REGIONAL GEOLOGY AND HYDROLOGY OF THE ANAD AREA

3.5.1 Geologic Setting

Anniston Army Depot lies within the Alabama sector of the Appalachian Valley and Ridge geologic province. This province is represented by a long, narrow, curving band of geologic structures that extends from Newfoundland, Canada to central Alabama, United States. This province is subdivided into three hydrogeologically defined subregions. These subregions include (from east to west) the Valley and Ridge, the Appalachian Plateaus, and the Interior Low Plateaus (see Figure 3-2).

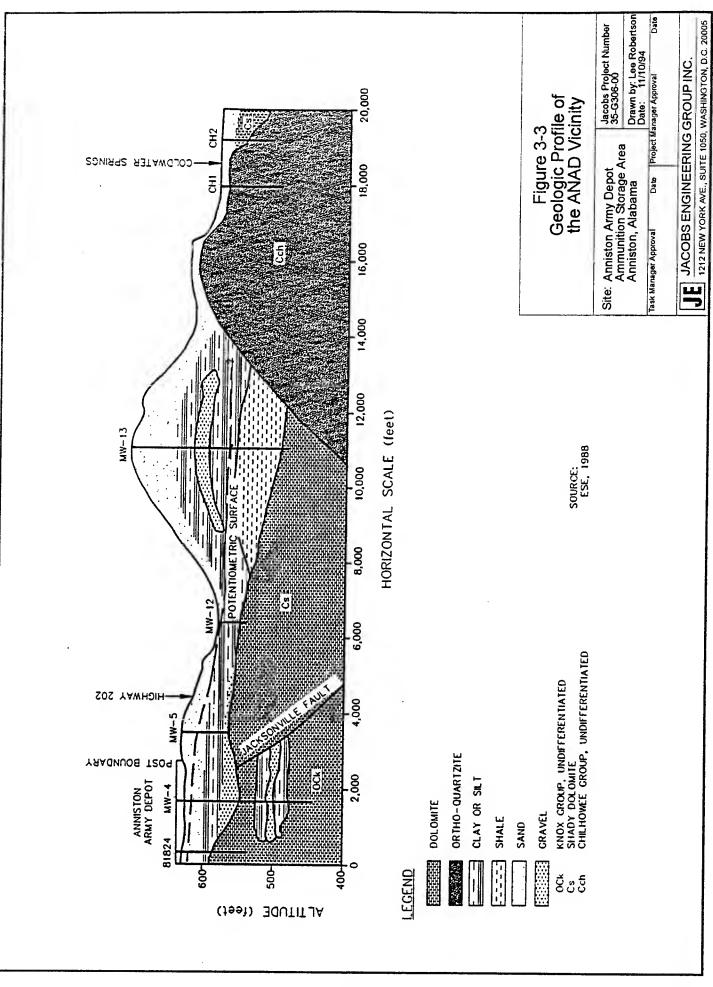
The Appalachian Plateaus and Valley and Ridge subregions encompass two major tectonic domains that include the southern extent of the Appalachian basin and the southeastern part of the Eastern Interior Basin.



Geology of the area around ANAD consists of Cambrian to Pennsylvanian age indurated sedimentary rocks that are exposed in long narrow belts of northeast trending ridges and valleys (Seaber, 1988). The ridges are generally underlain by folded and faulted resistant sandstones, cherty limestones and dolomites, and conglomerates. These rock types are generally less susceptible to weathering and erosion due to high quartz content in the rock formations. The valleys are typified by non-resistant limestones, shales, and dolomites that weather rather easily in a rainy humid climate. Flanks of the ridges are underlain by moderately resistant rocks that include siltstones and shales. Regionally, the ridges are underlain by the resistant silicious rocks of the Weisner Formation. Figure 3-3 shows the geology in vicinity of ANAD.

Coldwater Mountain is an uplifted anticlinorium comprised of the resistant Weisner Formation (Osborne and Szabo, 1984). In the vicinity of ANAD, however, the topographic highs are underlain by the Copper Ridge Dolomite (Knox Group). The Conasauga Formation forms topographic lows (ESE, 1982). Drilling cores collected from both rock units are practically indistinguishable. Both of these dolomites exhibit similar frequencies and distributions of fractures and solution cavities, and are hydrogeologically very similar (ESE, 1982). One characteristic that distinguishes the dolomites from one another is the high silica content of the Copper Ridge Formation of the Knox Group.

ANAD lies on the margin of a widespread distribution of carbonate rocks within a high rainfall area of the United States. Under such climatic conditions, karst topography may form in areas underlain by soluble carbonate strata. Aside from a sinkhole-like depression along the eastern ASA boundary (see Section 2.4.1) and a cave reported in the southwest portion of ANAD, no other karst-type topographic expressions were recognized during the 1991-1992 RI activities (Jacobs, 1991).



3.5.2 Structural Setting

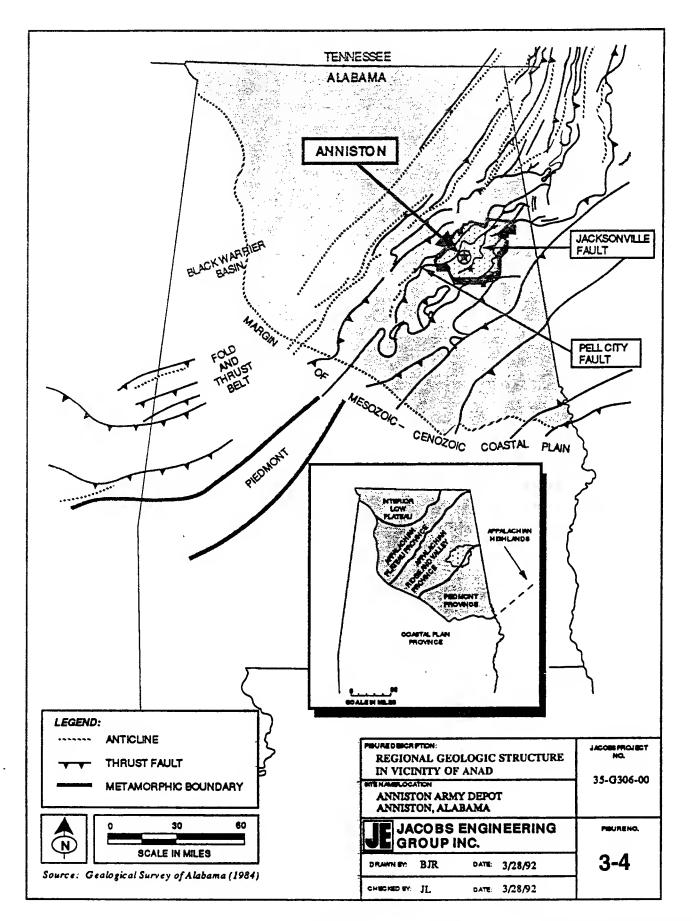
The northeast boundary of ANAD is bound by the regional Pell City Fault. The Jacksonville Fault is a major but not regional thrust fault that Osborne and Szabo (1984) defined as lying adjacent to the southeast boundary of the ANAD (Figure 3-4). The Jacksonville Fault is a northeast trending southwest dipping low angle thrust fault that has been defined by Osborne and Szabo as a major splay fault of the more regional Pell City Fault.

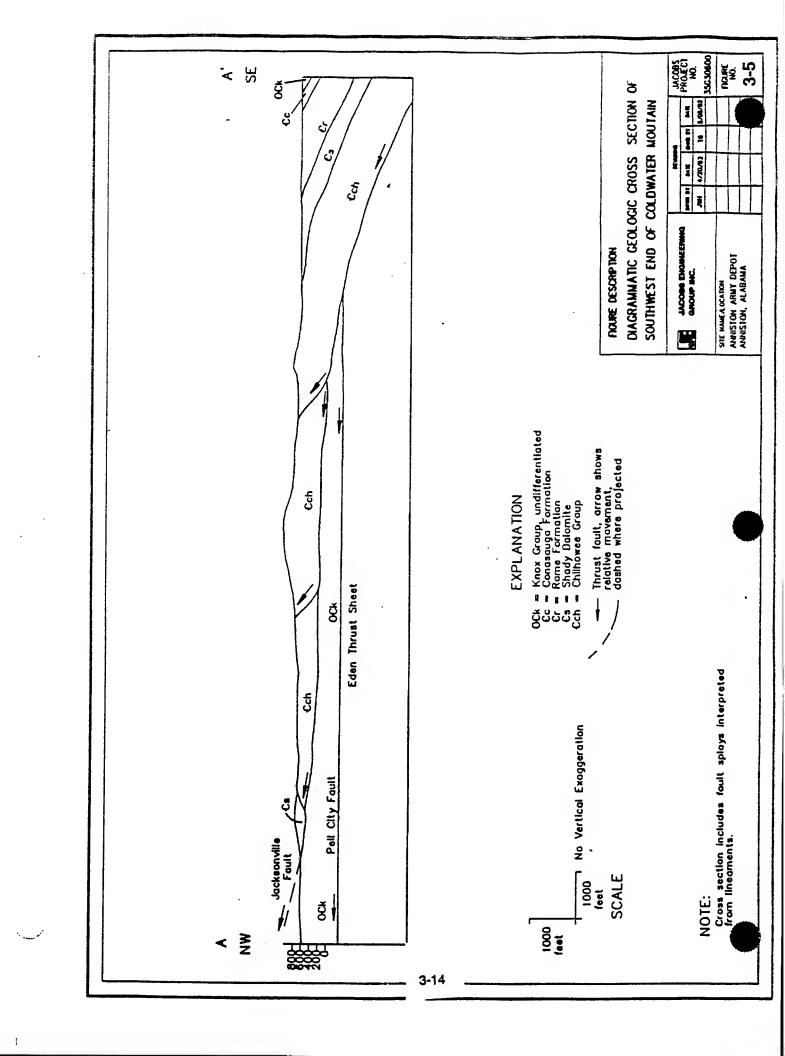
The sedimentary rocks found in the subsurface are tilted and thrust faulted into a series of disharmonic sheets which were regionally thrust from several kilometers west or northwestward (see Figure 3-5). The geologic structure is expressed in the northern portion of the Valley and Ridge subregion by extensive folding, whereas in the southern region, thrust faults dominate.

Osborne and Szabo (1984) state in their report on the stratigraphy and structure of the Jacksonville Fault:

• Recent seismic profiling in other areas of the Appalachian fold and thrust belt documents that most of the thrust faults dip to the southeast...Northwestward transport of the paleozoic sequence along the thrust faults has resulted in the imbricate stacking of large slabs of rock referred to as thrust sheets or panels. Within an individual thrust sheet, smaller faults may splay off the larger thrust fault that bounds the lower surface of the thrust sheet, resulting in the imbricate stacking of rocks within the thrust sheet.

Boring log information indicates that in areas south of the Jacksonville Fault trace, older consolidated rocks of the Cambrian Conasauga and Rome Formation, Shady Dolomite, and the Chilhowee Group have been thrust up onto rocks of the younger Ordovician and Cambrian Knox Group. Tremendous tectonic energy dissipated by the intense thrust faulting of the regional Pell City and secondary Jacksonville splay fault caused extensive secondary stress that resulted in numerous high angle faults in the area around ANAD. At various locations within the southern region of the Valley and Ridge, faults are so closely spaced that no intervening folds are preserved (Seaber, 1988).





Additional relevant information has been provided by field work which is currently being conducted in the ANAD area to relocate a road and pipeline. The construction contractor has uncovered evidence that rock fracturing and normal faulting has occurred more frequently than previously documented in areas north of Coldwater Spring (personal communication, USGS Alabama Region, 1992).

3.5.3 Lithology of Region Around Jacksonville and Pell City Thrust Faults

The lithologies affected by the Jacksonville and Pell City Faults are the Cambrian age rocks of the Chilhowee Group, Conasauga Formation, and the younger undifferentiated Knox Group (Osborne and Szabo, 1984.) The major rock formations mapped within the Jacksonville and Pell City Faults are described below in detail from oldest to youngest age. Figure 3-6 depicts the stratigraphy of the region near the Jacksonville and Pell City Faults.

3.5.3.1 Chilhowee Group. The Lower Cambrian Chilhowee Group consists of four formations: the Cochran, Nichols, Wilson Ridge, and Weisner Formations (from oldest to youngest age, respectively). These formations have been mapped and subdivided based on the relationship of their coarse-grained and fine-grained clastic components. In the study area that encompasses the ANAD facility, the Chilhowee Group has not been differentiated into its various formations. The coarse grained facies are comprised of primarily vitreous quartzite and friable, fine to coarse-grained ortho-quartzite sandstone, which are locally conglomeritic. In minor occurrences, micaceous shale and mudstones are found. The predominance of quartzite and sandstone within the area under study suggests a lithologic assignment of this rock type to the Weisner Formation. In addition, interbedded coarse and fine-grained rocks that have been noted within the local region indicate the occurrence of the Wilson Ridge Formation. A complete section of the Weisner Formation exists in Cherokee County, Alabama. In that section the Weisner Formation is 492 feet thick and the Wilson Ridge Formation is 604 feet thick. It is believed that although complicated by the presence of structural deformation, the thicknesses of the

Weisner and Wilson Ridge Formations are comparable in the ANAD area to those mapped in the section found in Cherokee County (Osborne and Szabo, 1984).

- 3.5.3.2 Shady Dolomite. The Lower Cambrian Shady Dolomite overlies the Chilhowee Group as mapped within the structural zone of the Jacksonville Fault. This unit is approximately 500 feet thick and, where exposed, is composed of light-gray, argillaceous to sandy, laminated dolostone and dolomitic limestone. Around the Anniston area, the Shady Dolomite consists of a compact mass of yellow-brown clay containing yellowish brown porcelaneous chert that weathers to a lacey "boxwork" texture (Osborne and Szabo, 1984).
- **3.5.3.3** Rome Formation. The Lower Cambrian Rome Formation overlies the Shady Dolomite Formation in the Jacksonville Fault region. It is comprised of clastic rocks that include mudstones, siltstone, sandstone, with interbeds of dolostone. In the Jacksonville thrust fault locality, the Rome Formation is approximately 1,000 feet thick.
- **3.5.3.4** Conasauga Formation. The Rome Formation within the study area is overlain by the Middle to Upper Cambrian Conasauga Formation. The Conasauga consists of thin bedded pale-olive mudstones, shaley mudstones, and shale, with local interbeds of limestone and rare siltstone. The limestone interbeds increase in thickness from the northeast to the southwest near the ANAD facility. The thickness of the Conasauga Formation around ANAD is approximately 100 feet.
- 3.5.3.5 Knox Group. The Upper Cambrian and Lower Ordovician Knox Group overlies the Conasauga Formation in the study area. The rocks of the Knox Group consist of a thick sequence of light to medium gray, fine to medium crystalline, variably bedded, laminated siliceous dolostone that weathers to a chert residuum (Osborne and Szabo, 1984). Within the Knox Group are also included rocks of the Copper Ridge and Chepultepec Dolomites. Because of poor exposure, however, the stratigraphy of the Knox in the ANAD area is not well understood. A complete section of the Knox is not exposed in the region, therefore the thickness is not known.

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(ENLARGED SECTION)

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ANNISTON ARMY DEPOT ANNISTON, ALABAMA	
JE JACOBS ENGINEERING GROUP INC.	FIGURE NO
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CHECKED BY: TG DATE: 4/20/92	5-0

3-17

3.5.4 Soils

Soils of Calhoun County were classified and mapped by the U.S. Department of Agriculture in the late 1950's. These soils are classified according to parent materials from which they are derived and the characteristics of their natural soil horizons occurring within approximately 5 feet of the surface. Soils of the Clarksville-Fullerton group are mapped throughout most of ANAD. Decatur-Cumberland soils are found in the southern extremities of the Depot and in the eastern portion of the Southeast Industrial Area.

Clarksville-Fullerton soils are developed in the residuum of cherty limestone. These soils are shallow, well-drained, dark brown to yellowish-brown stony loams to cherty clay loams and are highly susceptible to erosion. Chert and limestone inclusion from 3 inches to 8 inches in diameter occur commonly on the surface or within the soil profile. The permeability of these soils is from 2 to 10 inches per hour. The soil average pH range is from 4.5 to 5.4.

Decatur-Cumberland soils occur on transitional upland areas and are developed in residuum of underlaying limestone and ancient valley fills of limestone residuum detritus. They are fine-textured, well-drained, deep, dark reddish-brown to dark red, loam to silty clay loam. Decatur-Cumberland soils are highly susceptible to erosion on steeper slopes. The permeability of these soils is from 0.8 to 2.0 inches per hour. The soil average pH range is 4.5 to 5.4.

3.6 REGIONAL HYDROGEOLOGY

Topography influences the hydrogeology within the local region and plays a significant role at ANAD. Field studies conducted in humid regions have found that water tables in unconfined aquifers usually have the same general shape as the surface topography (Fetter, 1988). This is explained by the fact that recharge takes place in topographically high areas and has a greater potential energy than recharge occurring in topographically lower areas. The higher energy is reflected in the higher elevations of the water table at these locations. During the recent field investigation, water levels were measured and groundwater elevations were calculated.

The carbonate rocks (limestones, dolomites) and shales of the Middle to Upper Cambrian Conasauga Formation and undifferentiated Knox Group form some of the most transmissive aquifers of this subregion of the Valley and Ridge province. Compared to the more prolific regional aquifers of North America, aquifers in this area yield less water to wells. While it is important to note that some of these aquifers are highly permeable and porous on a local to subregional scale, few are permeable on a regional scale of hundreds to thousands of kilometers (Seaber, 1988).

Within this subregion, groundwater flow paths are typically relatively short, commonly extending no more than several tens of kilometers in their longest dimension. The rock units of the area that includes ANAD have little primary porosity. The permeability of the indurated Cambrian rocks is secondary and in general, the permeability decreases with depth.

Most of the large springs and high yield wells in the area are associated with significant subareal flow channels that include cavities, fractures, and faults within the rock units. The surface residuum, which can be characterized as the weathered by-product of the Knox Group, has variable transmissivity limiting the development of high yield wells. Structurally, this region has been affected by extensive folding and faulting. The existence of folds and faults that characterize the Valley and Ridge province contribute significantly to the present lack of understanding of the hydrogeologic conditions and potential subsurface transport pathways.

3.6.1 Regional Groundwater Flow

The groundwater flow systems of the ANAD area are controlled by an exceedingly complex geologic structure. The complex nature of the geology is represented by many semi-isolated hydrogeologic units that are characterized by jointing, fracturing, faulting, and possible solution cavities.

The groundwater aquifer in the ANAD area is discussed as a number of strata that possess similar hydraulic characteristics such as hydraulic potential, response to rainfall, permeability, and lithology. The four hydrogeologic layers that were described previously support these hydrologic distinctions on a local scale. Regionally, the groundwater aquifers consist of a shallow zone comprised of low permeability sandy, clayey silt, which is approximately 20 to 40 feet thick; and a deep zone comprised of low to high permeability sand and gravel sediment above weathered bedrock. The weathered bedrock zone is at the top of competent bedrock that has an approximate thickness of 1000 feet (Osborne and Szabo, 1984).

Regionally, the potentiometric surface of the shallow groundwater system in the unconsolidated residuum tends to resemble the topography (as expected in humid climate regions). In contrast, the deep potentiometric surface of the bedrock aquifer is influenced more by fracture systems and the regional gradient. Differences in hydraulic potentials indicate that the shallow groundwater system is not always isolated and leakage between the shallow and deep systems is common.

3.6.2 Surface Water Hydrology

Surface water runoff at ANAD is controlled by three prominent drainage divides. Surface water at ANAD flows into three major streams: Cane Creek to the north, Blue Eye Creek to the west, and Choccolocco Creek to the south. All of the streams draining ANAD eventually flow into the Coosa River, which lies west of the depot (see Figure 3-7). Dendritic drainage patterns are predominant in the area. Straightened drainage channels and pseudo-trellis drainage patterns are apparent in areas of the depot where construction of roadways and buildings has taken place.

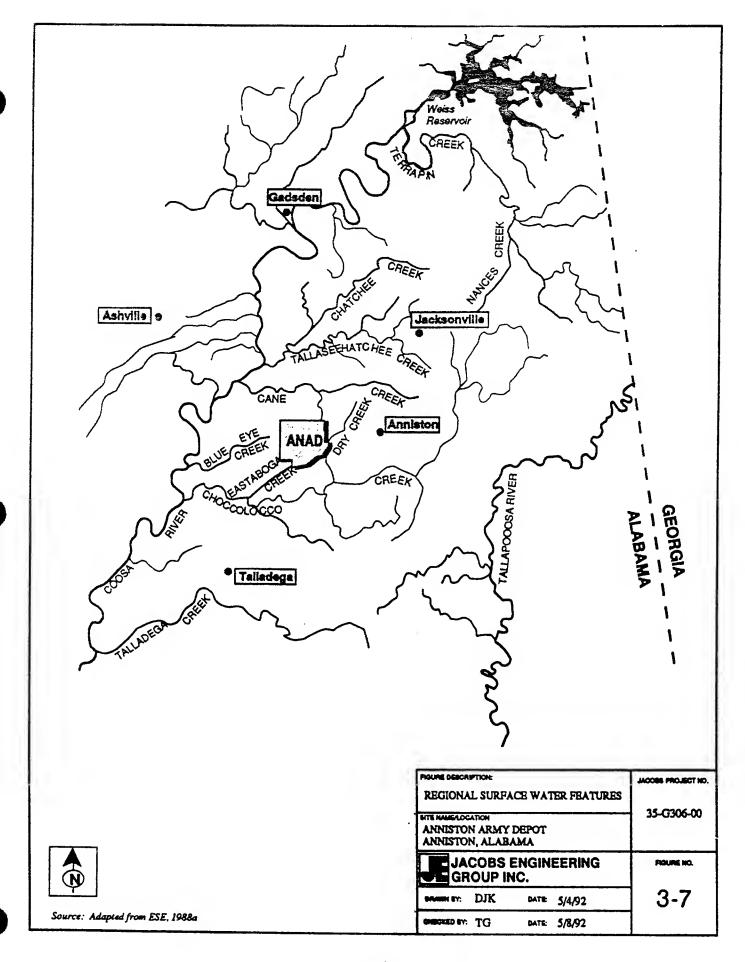
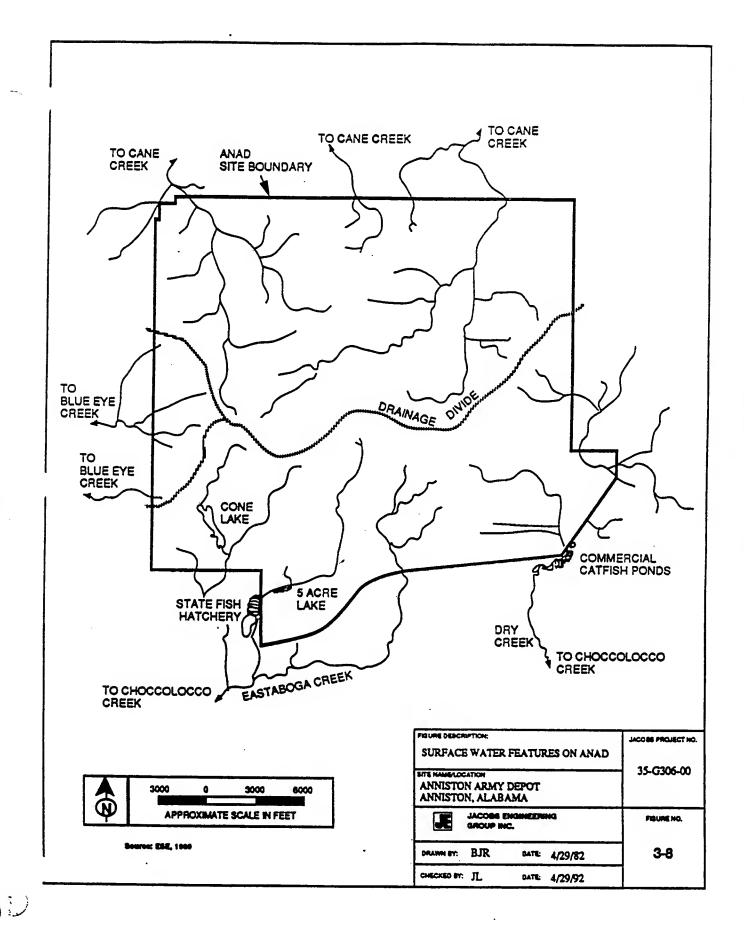


Figure 3-8 illustrates surface water drainage patterns and drainage divides on ANAD. As shown, a pronounced drainage divide bisects the depot from the east-central boundary to the southwest boundary. To the north of the divide the drainage flows into Cane Creek, whereas the southern drainage flows into the Choccolocco Creek system. North of the divide, a series of small drainageways exit the depot along the west-central boundary and flow westward to the Coosa River. The remainder of the drainage flows north into the Pelham Range, which is a part of the Fort McClellan Military Reservation. All drainage leaving the depot south of the divide flows onto private land (USATHAMA, 1978).

The average flow of streams in the area varies throughout the year. Daily flow rates respond not only to precipitation events but also to base flow contributions. Approximately one-third of the annual precipitation contributes to evaporation and transpiration processes. The remaining two-thirds are available for surface water runoff and groundwater infiltration.

Lakes and ponds in the immediate vicinity of ANAD occur south of the Choccolocco Creek divide. Two artificial lakes, Cone Lake and 5-Acre Lake, lie within the ANAD boundary and are used for recreational purposes. Twenty-four smaller (1/4 acre) ponds are located throughout ANAD. These are used for fire protection.



SECTION 4 FIELD INVESTIGATIONS

The expanded site inspection (ESI) of the Anniston Army Depot (ANAD) Ammunition Storage Area (ASA) was performed to determine whether there is sufficient evidence of contaminant release within the ASA solid waste management unis (SWMUs) to warrant further investigation. Specific investigations that were conducted and their results are discussed on a SWMU-by-SWMU basis in Section 5.

4.1 CONDUCT OF INVESTIGATIONS

Field investigations were conducted during the period January through May 1992. The work involved records searches, geophysical surveys, soil borings, well installations, and sampling of groundwater, surface waters, soils, and sediments for laboratory analyses.

The field investigation sample locations for each SWMU were based on the design presented in Section 5 of the ESI Work Plan (Jacobs 1991). In some instances, sample locations were modified to reflect site evaluation by the Jacobs on-site hydrogeologist of SWMU topography, geologic and surface soil observations, drainage patterns, and other field conditions. The sampling program at some SWMUs was modified because of limitations on access due to concerns about the presence of explosives or chemical hazards. Further modification of the Work Plan sampling design was required where well drilling or soil borings could not be completed because of geologic impediments that were encountered during drilling.

A hollow-stem auger rig was used to drill borings to collect subsurface soil samples. In some instances where drilling conditions precluded completion of planned borings, subsurface soil samples were not collected. Borings successfully drilled to the water table were completed as monitoring wells. Sediment samples were collected at locations determined in the field during the investigation, where a preferential drainage path was located or a stream flowed adjacent to a SWMU. Surface soil samples were collected by taking and homogenizing a 6-inch deep plug of

were installed. A detailed description of the sampling design is presented in the Work Plan. Field boring logs are presented in Appendix B.

4.2 SPECIAL SURVEYS

In December 1991, surface geophysical surveys were performed by Technos, Inc. at SWMUs #8, #16, #17, #26, and #27 to locate their exact boundaries. The survey conducted at the presumed location of SWMU #8 did not delineate the Acid Disposal Pit. Surveys conducted at SWMUs #26 and #27 successfully defined their boundaries. At the remaining SWMUs, typical conductivity values were encountered with no unusual features generally identified. A detailed description of the geophysical survey results is presented in Appendix C.

Unexploded ordnance (UXO) surveys were conducted at SWMUs #16 and #17. Both SWMUs were surveyed and cleared by UXB, International, Inc., using a magnetometer. In addition to these UXO surveys, soil collected from soil borings at SWMUs #10, #11, and #14 was screened by UXB for the presence of TNT and RDX. A detailed description of the UXO survey and TNT and RDX testing results is presented in Appendix C.

4.3 SAMPLING AND ANALYSIS

The selection of analyses that were performed on the collected samples is described in the ESI Work Plan. As detailed in that document, the analytic requirements were based upon a review of historic records and previous investigations that documented the historic patterns of activity, including SWMU purpose and function, chemicals used, and any waste disposal practices. The number, type, and location of sampling points, and recommended analyses were also based upon assumed behavior of any contaminants that could be inferred from ANAD records and prior investigations and reports.

4.4 QUALITY ASSURANCE

Installation of monitoring wells was generally in accordance with Section 6.9 of the Quality Assurance Program Plan (QAPP). Field adjustments from the Work Plan were necessary for the installation of some wells due to shallow depths at which groundwater was encountered. Appendix D describes the well installation modifications.

Sampling was conducted in accordance with appropriate sections of the QAPP: Section 6.8.2 for soil borings, Section 6.8.1, surface soil; Section 6.12, surface sediment; Section 6.10, groundwater; and Section 6.11, surface water.

Field investigations and laboratory analyses were conducted in accordance with procedures specified in the QAPP for sample collection, management, custody, equipment use and maintenance, and laboratory analytical methods. Only quality-level III data were used to support evaluations and recommendations that have been made in this report.

As required by Section 10.0 of the QAPP, data management was performed by carefully following chain of custody, data reduction, validation, and reporting procedures.

SECTION 5 INVESTIGATIONS AND RESULTS

Completion of the Expanded Site Inspection (ESI) of the Anniston Army Depot (ANAD) Ammunition Storage Area (ASA) entailed document reviews, geophysical investigations, and collection of surface soil, sediment, soil boring, surface water, and groundwater samples. Samples were subjected to laboratory analysis as reported throughout this report. This section of the ESI discusses the field investigations that were conducted and presents their results. All analytical results are presented in Appendix F. Procedures used to validate the ESI data and results are described in Appendix E.

Inorganic analytes are naturally occurring in soils, and organic compounds generally are not (with the exception of trace levels produced by the metabolic activity of soil microorganisms). Therefore, the presence of organic compounds in the environment at concentrations above the certified reporting limit (CRL) are considered, in this report, indicative of potential contamination. The presence of inorganic analytes at concentrations above the naturally occurring levels are also indicative of potential contamination. Samples were collected within the ASA to evaluate the naturally occurring values of inorganics, and are referred to as the control samples. A discussion of the control screening value selection criteria and development of these levels is presented in Section 5.1. A discussion of comparisons to the field data sets of control values is presented in Section 5.2. Section 5.3 presents a summary of field investigations conducted and results.

5.1 CONTROL SAMPLES

Selected sample locations within the ASA were used to determine control screening values using the following criteria:

- Sample locations are within the ASA.
- Sample locations were up-gradient of potential sources of contamination.
- Samples each had a "full scan" of the inorganics on the Target Analyte List (TAL) from the 1991–92 field investigations.
- Analytical results showed no obvious indications of contamination in the TAL
 analytes or in any other analytical result, for any medium. (Total organic carbon
 [TOC] and nitrate/nitrite in the absence of other contaminants are assumed to be
 naturally occurring and not indicative of contamination)

Samples selected as control samples for each medium were:

Groundwater: W2-17, 91B18, 91B18D

Sediment: S8SD1, S8SD2, S8SD3, S8SD3D, S8SD4

• Surface Soil: S10S01, S26S02, S27S02

Subsurface Soil: 91B17, 91B18

Tables 5-1 through 5-4 present analytical results of samples collected from each medium to be used in the determination of control values for screening potential contamination. (Surface water has not been assessed because only one sample was collected during the ESI.) Each table presents the inorganic certified reporting limits (CRLs) and the sample data. Sample data were averaged, and the average was doubled to attain each inorganic analyte's control screening value. For Table 5-1, Groundwater Control Samples, maximum contaminant levels (MCLs) were also included in the assessment. Where twice the average was greater than the MCL, the value selected as the control screening value was the greater of the MCL or the average. For values reported as being less than the detection limit (identified with a "<"), the average was calculated using the value at the detection limit, according to EPA recommendations (EPA 1989).

Table 5-1. Groundwater Control Samples

	n" wc. wz-i7	91B18	918180		CONTROL	CONTROL SCREENING VALUE	ALUE
n 107 6 n 37.1 6 y 37.1 6 y 37.1 6 y 37.1 6 c 6.01 50 n 2.5 4 n 5 5 n 5 5 n 5 5 n 5 5 n 5 5 2 5 5 2 5 5 2 5 5 n 5 5 n 5 5 n 5 5 n 5 5 n 5 5 n 5 5 n 5 5 n 5 5 n 5 5 n 5 5 n 5 5 n 1,300***	(நக்ர)	(நகர்)	(µg/l)	Avg.	2' Avg.	Use	Comment
n 107 6 V 37.1 6 V 37.1 6 C 6.01 50 2,000 n 5 4 4 n 5 4 4 n 5 4 4 n 5 5 5 m 15 100 100 s 25 1,300** 1300** l 120 1,300** 120 l 1,26 15** 15** lum 500 15**	1-9	5-8	5-8				
V 37.1 6 6.01 50 1 20 2,000 1 2.5 4 1 5 5 1 5 5 1 5 5 1 5 5 1 5 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	07 591	14,400	13,700	9,564	19,127	19,127	2xAvg.
6.01 50 20 2.000 2.000 2.5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		<37.1	.<37.1	37.1	74.2	37.1	Avg.>MCL
n 2.5 2,000 m 5.5 4 m 5.00 2,000 m 5.0 1,000 m 15 100 m 25 100 m 8.17 200 m 1.26 15**		<6.01	<6.01	6.01	12.02	50	MCL
2.5 4 5 5 500 7 15 100 7 25 100 7 20 1,300** 7 120 1,300** 7 120 1,300** 7 120 1,300** 7 120 1,300** 7 120 1,300** 7		219	230	167	334	2,000	MCL
5 5 5 500 100 25 100 20 1,300** 8.17 200 120 15**		<2.5	<2.5	2.5	5	4	MCL
25 100 20 1,300** 20 1,300** 200 20 1,300** 200 200 200 200 200 200 200 200 200		ج5	<5	5	10	5	MCL
15 100 25 1,300** 20 1,300** 120 120 1126 15** 1126 15**	38,400	6,320	6,170	16,963	33,927	33,927	2xAvg.
25 1,300** 20 1,300** 200 120 120 15** 16** 16** 16** 16** 16** 16** 16**		54.9	42.7	38	75	100	MCL
8.17 200 120 15** 1.26 15**	25 <-25	28.4	33.5	29	58	58	2xAvg.
8.17 200 120 15** III.26 15**		23.1	23.1	22	44	1,300	MCL
120 1.26 15** ssium 500		<8.17	<8.17	8.17	16.34	200	MCL
1.26 15** esium 500	20 2,220	58,000	57,000	39,073	78,147	78,147	2xAvg.
200		23.8	29	19	39	19	Avg>MCL
	3,790	1,590	1,470	2,283	4,567	4,567	2xAvg.
Manganese 5.11 4	.11	2,800	2,900	2,056	4,113	4,113	2xAvg.
Метсилу 0.74 2 <0		<0.74	<0.74	0.74	1.48	2	WCL

Table 5-1. (Continued)

COMPOUND (μg/l) Molybdenum 30.9 Nickel 63.1 Potasslum 1,250 Selenlum 14.9 Silver 12.5 Sodium 500 Thailium 2.5 Vanadium 20 Zinc 13	171	W2—17	91B18	91B18D	<i>"</i> .	CONTROL	CONTROL SCREENING VALUE	/ALUE
m umu	(ਮਿਰਮ)	(µg/J)	(убл)	(µg/l)	Avg.	2' Avg.	Use	Comment
		<30.9	<30.9	<30.9	30.9	61.8	61.8	2xAvg.
	100	<63.1	<63.1	<63.1	63.1	126.2	100	MCL
		12,300	<1,250	<1,250	4,933	9,867	9.867	2xAvn
u	50	<14.9	<14.9	<14.9	14.9	29.8	20	TOM
		<12.5	<12.5	<12.5	12.5	25	25	2xAvn
dium		2,770	3,320	3,340	3,143	6.287	6.287	2×Ava
dlum	2	<2.5	<2.5	<2.5	2.5	5	2.5	AvasMCI
		<20	44.5	42.5	36	7	7.	2xAva
		426	540	491	486	971	971	2xAva.
			Other Analyses					
Nitrate/Nitrite 1.00		N/A	29.6	24.7	27.1	54.3	54.3	2xAvn
1. 100		N/A	N/A	N/A			-	CBL

N/A = not analyzed
Limit of Detection — No *CRL* tor these methods
"Values listed for copper and lead are *action levels," not MCLs.
"Pace Laboratories

Jacobs Engineering Group Inc. Washington Operations

Table 5-2. Subsurface Soil Control Samples

= 1,	CRL"	91817	91817	91B17	91B18	CONTRO	L VALUE
ANALYTE	(ha\a)	(5 ft.) (μg/g)	(10 ft.) (μg/g)	(15 ft.) (μg/g)	(5 ft.) (µg/g)	Avg.	2 Avg.
Figure No.		5-7	5-7	5-7	5-8		
Aluminum	10.7	6,300	3,100	14,000	5,450	7,21 2	14,425
Antimony	82.9	<82.9	<82.9	<82.9	<82.9	82.9	165.8
Arsenic	12.7	<12.7	<12.7	<12.7	<12.7	12.7	25.4
Barium	4.87	47.5	33.4	17.6	55	38.4	76.7
Beryllium	0.25	0.684	1.14	1.99	0.875	1.17	2.34
Cadmium	0.4 2 7	<0.427	<0.427	<0.427	<0.427	0.427	0.854
Calcium	109	4 2 8	756	896	208	572	1,144
Chromium	0.974	51.6	6.63	15.8	8.13	20.5	41.1
Cobalt	2.5	17.4	10.7	20.4	12	15.1	30.2
Copper	3.38	8.51	9.52	28	11.7	14.4	28.9
Cyanide	1.22	<1.22	<1.22	<1.22	<1.22	1.22	2.44
Iron	12	40,000	9,400	2 9,0 00	15,000	23,350	46,700
Lead	10	3 8 .4	17.2	23.3	21.7	25.1	50.3
Magnesium	138	279	416	896	265	464	928
Manganese	0.511	930	590	440	310	567	1,135
Mercury	0.087	<0.087	0.134	<0.087	<0.087	0.098	0.197
Molybdenum	4	<4	<4	<4	<4	4	8
Nickel	7.5	<7.5	11.6	38.5	13	17.6	35.3
Potassium	142	142	229	776	235	345	691
Selenium	12.4	<12.4	<12.4	<12.4	<12.4	12.4	24.8
Silver	1.01	<1.01	<1.01	<1.01	<1.01	1.01	2.02
Sodium	50	<50	<50	75.6	<50	56.4	112.8
Thallium	12.5	<12.5	<12.5	<12.5	<12.5	12.5	25.0
Vanadium	2	63.8	20	44.6	16.2	36.1	72.3
Zinc	4	40.9	32.9	119	51	60.9	121.9
			Other Analyses				
Nitrate/Nitrite	1.00*	N/A	N/A	N/A	N/A	1.00	2.00
тос	40°	N/A	N/A	N/A	N/A	40	80

Limit of Detection — No "CRL" for these methods Pace Laboratories N/A = not analyzed

Table 5-3. Surface Soil Control Samples

. M.	CRL	SAMPLE \$10\$01	SAMPLE S26S02	SAMPLE S27S02	CONTRO	L VALUE
ANALYTE	(ha\a)	0.5 ft. (µg/g)	0.5 ft. (µg/g)	0.5 ft. (µg/g)	Avg.	2 Avg.
Figure No.		5-4	5-10	5-10		
Aluminum	10.7	5,130	31,000	15,000	17,043	34,087
Antimony	82.9	<82.9	<82.9	<82.9	82.9	165.8
Arsenic	12.7	<12.7	<12.7	<12.7	12.7	25.4
Barium	4.87	21.4	72.2	51.7	48.4	96.9
Beryllium	0.25	<0.25	0.817	0.419	0.495	0.991
Cadmium	0.427	<0.427	<0.427	<0.427	0.427	0.854
Calcium	109	1,300	525	420	748	1497
Chromium	0.974	9.59	25.2	13.6	16.1	32.3
Cobalt	2.5	4.75	26.9	15.2	15.6	31.2
Copper	3.38	<3.38	16.3	10.1	9.9	19.9
Cyanide	1.22	<1.22	<1.22	<1.22	1.22	2.44
Iron	12	9,300	28,000	17,000	18,100	36,200
Lead	10	<10	28.6	20.9	19.8	39.7
Magnesium	138	242	1,160	678	693	1,387
Manganese	0.511	120	1,200	320	547	1093
Mercury	0.087	<0.087	<0.087	<0.087	0.087	0.174
Molybdenum	4	<4	<4	<4	4	8
Nickel	7.5	<7.5	17.4	9.76	11.6	23.1
Potassium	142	208	858	413	493	986
Selenium	12.4	<12.4	<12.4	<12.4	12.4	24.8
Silver	1.01	<1.01	<1.01	<1.01	1.01	2.02
Sodium	50	<50	100	<50	67	133
Thallium	12.5	<12.5	<12.5	<12.5	12.5	25.0
Vanadium	2	19.6	54.8	32.4	35.6	71.2
Zinc	4	15,1	49.5	42.6	35.7	71.5
		Otl	ner Analyses			
Nitrate/nitrite	1.0°	1.0	N/A	N/A	1.0	2.0
тос	40°	10,400	N/A	N/A	10,400	20,800

*Limit of Detection — No *CRL* for these methods N/A = not analyzed Pace Laboratories



Table 5-4. Sediment Control Samples

A A A A A A A A A A A A A A A A A A A	CRL"	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	CONTROL	. VALUE
ANALYTE	(ha/a)	\$8\$D1 (µg/g)	\$8\$D2 (µg/g)	(ha\a) 282D3	\$8\$D3D (µg/g)	\$8SD4 (µg/g)	Avg.	2 Avg.
Figure No.		5-3	5-3	5-3	5-3	5-3		
Aluminum	10.7	15,000	16,000	13,000	20,000	17,000	16,200	32,400
Antimony	82.9	<82.9	<82.9	<82.9	<82.9	<82.9	82.9	165.8
Ars en ic	12.7	<12.7	<12.7	<12.7	<12.7	<12.7	12.7	25.4
Barium	4.87	24.6	59.6	73.9	30.4	56.3	49.0	97.9
Beryllium	0.25	0.57	0.498	0.704	0.771	0.997	0.708	1.416
Cadmium	0.427	<0.427	<0.427	<0.427	<0.427	<0.427	0.427	0.854
Calcium	109_	2 20	<109	237	238	358	232	465
Chromium	0.974	16.8	15.9	18.7	51.5	19.6	24.5	49.0
Cobalt	2,5	22.5	20.7	32.1	28.9	55.8	32	64
Copper	3.38	21.7	12.3	21	24.7	33.9	22.7	45.4
Cyanide	1.22	<1.22_	<1.22	<1.22	<1.22	<1.22	1.22	2.44
Iron	12	29,000	12,000	41,000	48,000	37,000	33,400	66,800
Lead	10	<10	19.1	14.7	18.3	24	17.2	34.4
Magnesium	138	515	64 9	334	572	613	537	1,073
Manganese	0.511	192	540	740	330	1,200	600	1,201
Mercury	0.087	<0.0087	<0.087	<0.087	<0.087	<0.087	0.087	0.174
Molybdenum	_4	<4	<4	<4	<4	<4	4	8
Nickel	7.5	14.3	12.8	<7.5	15.2	28.9	15.7	31.5
Potassium	142	846	607	376	736	735	660	1,320
Selenium	12.4	<12.4	<12.4	<12.4	<12.4	<12.4	12.4	24.8
Silver	1.01	<1.01	<1.01	<1.01	<1.01	<1.01	1.01	2.02
Sodium	50	<50	<50	81.5	91.5	80.9	70.8	141.6
Thallium	12.5	<12.5	<12.5	<12.5	<12.5	<12.5	12.5	25.0
Vanadium	2	48.5	29.4	47.9	57	52	47	94
Zinc	4	54.4	42.4	37.7	53.9	87.3	55.1	110.3
			Other	Analyses				
Nitrate/nitrite	1.00	N/A	N/A	N/A	N/A	N/A	1.00	2.00
тос	40	N/A	N/A	N/A	N/A	N/A	40	80

Limit of Detection — No "CRL" for these methods
Pace Laboratories
N/A = not analyzed

5.2 ANALYTIC DATA OVERVIEW

5.2.1 Groundwater

A summary of on-site groundwater chemical data is presented in Table 5-5. Each inorganic analyte was evaluated against the control screening value derived in Table 5-1, and each organic compound was evaluated against the CRL to determine potential contaminants. Table 5-5 lists the number of results for each chemical parameter, together with the CRL, a count of how many times it exceeded the control screening value, what frequency of excess this was, and what was found to be the maximum concentration.

The potential inorganic contaminants of concern are: aluminum, beryllium, cadmium, calcium, chromium, cobalt, iron, lead, magnesium, manganese, nickel, potassium, selenium, silver, sodium, vanadium, and zinc. The VOC acetone and the SVOC bis(2-ethylhexyl) phthalate were detected in several groundwater samples. The explosives 4-nitrotoluene and HMX were detected in one sample each, while RDX was detected in two. Nitrate/nitrite was detected in nine samples, and TOC was detected in the only sample.

Table 5-6 presents pH, conductivity and temperature data for all water samples collected on-site during the field investigations. The pH values range from 4.94 to 10.30 with a mean value of 6.84. Conductivity values range from a minimum of 50 μmhos/cm to a maximum of 533 μmhos/cm with a mean value of 180.05. The relatively low conductivity is indicative of a low concentration of ions in solution. This supports the presumption that elevated concentrations of inorganics in water sample analyses is most probably due to particulate inorganic material. The high pH value (10.30) is probably due to grout contamination of well 91B11.

Table 5-5. Groundwater Chemical Data Summary

ELEMENTS/COMPOUNDS		NUMBER OF	CO	TS ABOVE NTROL ING VALUE	MAXIMUM CONCENTRATION
	CRL" (µg/l)	RESULTS	Number	Frequency (%)	(µg/l)
	Inc	rganics			
Aluminum	107	16	2	12	31,600
Antimony	37.1	16	0	0	<37.1
Arsenic	6.01	16	0	0	11.6
Barium	20	16	0	0	1,650
Beryllium	2.5	16	2	12	3.22
Cadmium	5	16	1	6	18.4
Calcium	500	16	3	19	63,000
Chromium	15	16	3	19	145
Cobalt	25	16	2	12	433
Copper	20	16	0	0	353
Cyanide	8.17	17	0	0	<8.17
Iron	120	16	1	6	99,000
Lead	1.26'	34	8	24	137
Magnesium	500	16	5	31	33,000
Manganese	5.11	16	1	6	18,000
Mercury	0.74	16	0	0	<0.74
Molybdenum	30.9	16	0	0	<30.9
Nickel	63.1	16	2	12	180
Potassium	1250	16	1	6	12,300
Selenium	14.9²	34	0	0	<75
Silver	12.5	16	11	6	105
Sodium	500	16	4	25	38,400
Thallium	2.5 ³	34	11	3	2.64/<100
Vanadium	20	16	3	19	109
Zinc	13	16	3	19	1,240

Table 5-5. Groundwater Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS	CRL"	NUMBER OF RESULTS	co	TS ABOVE NTROL IING VALUE	MAXIMUM CONCENTRATION (µg/l)				
Say Bay	(µg/l)		Number	Frequency (%)					
VOCs									
Acetone	10	16	5	31	21				
Benzen e	5	16	0	0	<5				
Bromodichloromethane	5	16	0	0	<5				
Bromoform	5	16	0	0	<5				
Bromomethane	10	16	0	0	<10				
Carbon disulfide	5	16	0	0	<5				
Carbon tetrachloride	5	16	0	0	<5				
Chicrobenzene	5	16	0	0	<5				
Chloroethane	10	16	0	0	<10				
Chloroethene	10	16	0	0	<10				
Chloroform	5	16	0	0	<5				
Chloromethane	10	16	0	0	<10				
Dibromochloromethane	5	16	0	0	<5				
1,1-Dichlorethane	5	16	0	0	<5				
1,2-Dichloroethane	5	16	0	0	<5				
1,1-Dichloroethylene	5	16	0	0	<5				
cis-1,2-Dichloroethylene	5	16	0	0	< 5				
cis-1,3-Dichloropropylene	5	16	0	0	<5				
trans-1,2-Dichloroethylene	5	16	0	0	< 5				
1,2-Dichloropropane	5	16	0	0	< 5				
trans-1,3-Dichloropropylene	5	16	0	0	<5				
Ethylbenzene	5	16	0	0	<5				
Methylene chloride	5	16	0	0	<5				
Methylethyl ketone	10	16	0	0	<10				
Methylisobutyl ketone	10	16	0	0	<10				

Table 5-5. Groundwater Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER	CO	TS ABOVE NTROL IING VALUE	MAXIMUM CONCENTRATION
	CRL" (µg/l)	RESULTS	Number	Frequency (%)	(µg/l)
Methyl-N-butyl ketone	10	16	0	0	<10
Styrene	5	16	0	0	<5
1,1,2,2-Tetrachloroethane	5	16	0	0	<5
Tetrachloroethylene	5	16	0	0	<5
1,1,1-Trichloroethane	5	16	0	0	<5
1,1,2-Trichloroethane	5	16	0	0	<5
Trichloroethylene	5	16	0	0	<5
Trifluorochloromethane	5	16	0	0	<5
Toluene	5	16	0	0	<5
Xylenes .	5	16	0	0	<5
	s	VOCs			
Acenaphthene	10	16	0	0	<10
Acenaphthylene	10	16	0	0	<10
Anthracene	10	16	0	0	<10
Benzo[a]anthracene	10	16	0	0	<10
Benzo[a]pyrene	10	16	0	0	<10
Benzo[b]fluoranthene	10	16	0	0	<10
Benzo[g.h]perylene	10	16	0	0	<10
Benzo[k]fluoranthene	10	16	0	0	<10
Benzoic acid	50	16	0	0	<50
Benzyl alcohol	10	16	0	0	<10
Bis (2-chloroisopropyl) ether	10	16	0	0	<10
Bis (2-chloroethyl) ether	10	16	0	0	<10
Bis (2-chloroethoxy) methane	10	16	0	0	<10
Bis (2-ethylhexyl) phthalate	10	16	1	6	41
4-Bromophenylphenyl ether	10	16	0	0	<10

Table 5-5. Groundwater Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	co	TS ABOVE NTROL IING VALUE	MAXIMUM CONCENTRATION
	CRL" (µg/l)	RESULTS	Number	Frequency (%)	(hg/l)
Butylbenzyl phthalate	10	16	0	0	<10
4-Chloroaniline	10	16	0	0	<10
2-Chloronaphthalene	50	. 16	0	0	<50
Chlorophenols	10	16	0	0	<10
4-Chlorophenylphenyl ether	10	16	0	0	<10
Chrysene	10	16	0	0	<10
Dibenz[a,h]anthracene	10	16	0	0	<10
Dibenzofuran	10	16	0	0	<10
1,2-Dichlorobenzene	10	16	0	0	<10
1,3-Dichlorobenzene	10	16	0	0	<10
1,4-Dichlorobenzene	10	16	0	0	<10
3,3 Dichlorobenzidine	20	16	0	0	<20
2,4-Dichlorophenol	10	16	0	0	<10
Diethyl phthalate	10	16	0	0	<10
2,4-Dimethylphenol	10	16	0	0	<10
Dimethyl phthalate	10	16	0	0	<10
Di-N-butyl phthalate	10	16	0	0	<10
Di-N-octyl phthalate	10	16	0	0	<10
2,4-Dinitrophenol	50	16	0	0	<50
Fluoranthene	10	16	0	0	<10
Fluorene	10	16	0	0	<10
Hexachlorobenzene	10	16	0	0	<10
Hexachlorobutadiene	10	16	0	0	<10
Hexachlorocyclopentadiene	10	16	0	0	<10
Hexachloroethane	10	16	0	0	<10
Indeno[1,2,3-c,d]pyrene	10	16	0	0	<10

Table 5-5. Groundwater Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	RESULTS ABOVE CONTROL SCREENING VALUE		MAXIMUM CONCENTRATION
	CRL** (µg/l)	RESULTS	Number	Frequency (%)	(µg/l)
Isophorone	10	16	0	0	<10
3-Methyl-4-chlorophenol	10	16	0	0	<10
2-Methyl-4.6-dinitrophenol	50	16	0	0	<50
2-Methylnaphthalene	10	16	0	0	<10
2-Methylphenol	10	16	0	0	<10
4-Methylphenol	10	16	0	0	<10
Napthalene	10	16	0	0	<10
2-Nitroaniline	50	16	0	0	<50
3-Nitroaniline	50	16	0	0	<50
4-Nitroaniline	50	16	0	0	<50
Nitrobenzene	10	16	0	0	<10
2-Nitrophenol	10	16	0	0	<10
4-4-Nitrophenol	50	16	0	0	<50
N-Nitrosodi-N-propylamine	10	16	0	0	<10
N-Nitrosodiphenylamine	10	16	0	0	<10
Pentachlorophenol	50	16	0	0	<50
Phenanthrene	10	16	0	0	<10
Phenol	10	16	0	0	<10
Pyrene	10	16	0	0	<10
1,2,4-Trichlorobenzene	10	16	0	0	<10
2,4,5-Trichlorophenol	50	16	0	0	<50
2,4,6-Trichlorophenol	10	16	0	0	<10
	Exp	olosives			
1,3-Dinitrobenzene	0.319	16	0	0	<0.319
2,4-Dinitrotoluene	0.321⁴	32	0	0	<10
2.6-Dinitrotoluene	0.64 ⁵	32	0	0	<10

Table 5-5. Groundwater Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS	CRL"	NUMBER OF RESULTS	co	TS ABOVE NTROL IING VALUE Frequency (%)	MAXIMUM CONCENTRATION (µg/l)
нмх	2.29	16	1	6	86
Nitroglycerine	3.2	16	0	0	<3.2
2-Nitrotoluene	0.646	16	0	0	<0.646
3-Nitrotoluene	0.492	16	0	0	<0.492
4-Nitrotoluene	0.338	16	1	6	2.25
Pentaerythritol tetranitrate	5.02	16	0	0	<5.02
RDX	0.653 -	16	2	12	40.6
Tetryl	1.29	16	0	0	<1.29
1,3,5-Trinitrobenzene	0.517	16	0	0	<0.517
2,4,6-Trinitrotoluene	0.319	16	0	0	<0.319
	Pe	sticides			
Aldrin	0.0638	1	0	0	<0.0638
alpha-Benzenehexachloride	0.0434	1	0	0	<0.0434
beta-Benzenehexachloride	0.0109	1	0	0	<0.0109
delta-Benzenehexachloride	0.0488	1	0	0	<0.0488
2,2-Bis (p-chlorophenyl)-1,1-dichloroethane	0.0848	11	0	0	<0.0848
2,2-Bis (p-chlorophenyl)-1,1-dichloroethene	0.0946	1	0	0	<0.0946
2,2-Bis (p-chlorophenyl)-1,1,1-trichloroethane	0.0316	1	0	0	<0.0316
alpha-Chlordane	0.0202	1	0	0	<0.0202
gamma-Chlordane	0.045	1	o	0	<0.045
Dieldrin	0.0321	1	0	0	<0.0321
alpha-Endosulfan	0.00856	1	0	0	<0.00856
beta-Endosulfan	0.012	1	0	0	<0.012
Endrin	0.0372	1	0	0	<0.0372
Endrin Aldehyde	0.0697	1	0	0	<0.0697
Endrin ketone	0.0282	1	0	0	<0.0282

Table 5-5. Groundwater Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL		MAXIMUM CONCENTRATION					
	CRL" (µg/l)	RESULTS	Number	Frequency (%)	(µg/l)					
Endosulfan sulfate	0.02	1	0	0	<0.02					
Heptachlor	0.0631	1	0	0	<0.0631					
Heptachlor epoxide	0.006	1	0	0	<0.006					
Lindane	0.0429	1	0	0	<0.0429					
Methoxychlor	0.267	1	0	0	<0.267					
PCB 1016	0.1	1	0	0	<0.1					
PCB 1221	0.2	1	0	0	<0.2					
PCB 1232	0.1	1	0	0	<0.1					
PCB 1242	0.1	1	0	0	<0.1					
PCB 1248	0.1	1	0	0	<0.1					
PCB 1254	0.1	1	0	0	<0.1					
PCB 1260	0.1	1	0	0	<0.1					
Toxaphene	0.5	1	0	0	<0.5					
	Other Analyses									
Nitrate/nitrite	1.0°	15	9	60	1,050					
TPHC	1,000	1	0	0	<1,000					
тос	1.0	1	1	100	3,150					

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¹Pb was analyzed by method SD08 (CRL = 1.26 μ g/l) and SS15 (CRL = 100 μ g/l). ²Se was analyzed by method SD08 (CRL = 14.9 μ g/l) and SS15 (CRL = 75 μ g/l). ³Tl was analyzed by method SD08 (CRL = 2.5 μ g/l) and SS15 (CRL = 100 μ g/l). ⁴2,4-Dinitrotoluene was analyzed by method UW35 (CRL = 0.0321 μ g/l) and UM06 (MDL = 10 μ g/l). ⁵2,6-Dinitrotoluene was analyzed by method UW35 (CRL = 0.64 μ g/l) and UM06 (MDC = 10 μ g/l). Limit of Detection - No "CRL" for these methods

Table 5-6. Groundwater and Surface Water Parameters
Measured During Sample Collection

LOCATION	pH (Std. Units)	CONDUCTIVITY (µmhos/cm)	TEMP.	NOTES
NBSW1	6.75	65	9.2	SURFACE
NBSW2	6.80	70	8.4	SURFACE
NBSW3	7.50	183	12.0	SURFACE
S5SW1	7.97	533	6.12	SURFACE
W2-17	6.18	246	15.0	WELL
W2-18	6.15	50	16.8	WELL
91B11	10.30	230	19.0	WELL
91B12	6.34	85	11.5	WELL
91B13	5.92	55	14.7	WELL
91B14	4.94	52	13.4	WELL
91B15	8.51	514	17.5	WELL
91B16	6.45	54	15.0	WELL
91B17	7.05	175	14.0	WELL
91B18	6.25	136	13.5	WELL
91B19	6.62	86	15.7	WELL
91B20	6.17	60	17.6	WELL
91B21	6.52	526	526 17.5	
91B22	6.56	101	101 15.2	
91B23	7.77	312	15.6	WELL
91B24	6.20	68	15.5	WELL

5.2.2 Soil and Sediment

Surface soil, subsurface soil and sediment chemistry data summaries are presented in Tables 5-7 and 5-8, and 5-9 respectively. The summaries include the number of results in the IRDMIS data base for the ESI, the frequency of detections above the control screening values (listed in Tables 5-1 through 5-4), and maximum concentrations.

For surface soil, the most frequent of the analytical detections above the control screening values include the inorganics copper, lead, and zinc. Total petroleum hydrocarbons (TPHC) was detected in all of the surface soil samples on which this analysis was performed. Other detections include methylene chloride, trichlorofluoromethane, trichloroethylene, anthracene, bis(2-ethylhexyl) phthalate, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h]perylene, benzo[k]fluoranthene, chrysene, fluoranthene, indeno[1,2,3-c,d]pyrene, phenanthrene, pyrene and toluene. Nitrate/nitrite was detected in one sample. Explosives 2,4,6-trinitrotoluene, 2,4-dinitrotoluene, HMX, and nitroglycerine were each detected once in surface soil samples.

For subsurface soil, the most frequent of the analytical detections above the control screening values were the inorganics aluminum, cobalt, copper, potassium, manganese, and sodium. The VOC acetone was detected in three subsurface samples, methylene chloride was detected in two, and trichloroethylene was detected in one. TPHC was detected in six samples, nitrate/nitrite in one, and TOC in two.

For sediments, the frequency of detection of inorganics above the control screening values is the lowest of all media, with calcium and chromium occurring most frequently. Acetone and methylene ethyl ketone were each detected in the one sample for which they were analyzed. Benzo[a]anthracene, benzo[a]pyrene, chrysene, and fluoranthene were also detected in the one instance where they were analyzed. Nitrate/nitrite was detected in one sample, and TPHC and TOC were each detected in both samples where these analyses were performed. PCB 1254 was detected in one sample.

5.2.3 Chemical Quality Control Data

Chemical quality control (CQC) samples were collected and analyzed during the ESI to assess the quality of the data generated during the project. See Appendix E for a full discussion of this data and their significance to the project. Appendix E concludes that although various chemical parameters were detected in the CQC samples, the quality of the data was not negatively impacted. Equipment rinse blanks were collected in the field to evaluate the quality of field decontamination procedures. Trip blanks accompanied all samples while in the field and during shipment to the laboratory to evaluate the quality of sample storage, handling, and shipment. Field blanks are often collected to evaluate the quality of the field ambient air, however, no samples of this type were collected during the ESI. Method blanks were analyzed in the laboratory to assess the quality of the laboratory performance.

Six equipment rinse blanks were collected in the field and analyzed in the laboratory. Detected inorganic analytes included: aluminum, barium, calcium, iron, manganese, lead and zinc. Detected organic compounds included TOC and trichloroethylene. All parameters detected in the rinsate samples were also detected in environmental samples collected during the ESI. Trichloroethylene was detected in rinsate sample ER91B23 at $5.3~\mu g/l$ and was also detected in the associated soil sample at $0.011~\mu g/g$. With this association between results, it is possible that contaminated equipment was responsible for the detection in the soil sample. However, because the concentration of trichloroethylene in the soil sample was less than 10 times the amount detected in the blank, it is considered insignificant. And because this event only happened once, it can be concluded that decontamination procedures in the field were adequate and did not negatively impact data quality.

Twenty-two trip blanks were managed in the field and shipped with the samples to the laboratory for analysis. Detectable concentrations of acetone and trichloroethylene were found in trip blanks. However, because the concentrations of acetone and

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trichloroethylene in environmental samples were at values less than 10 times the amount detected in the blanks, they are considered insignificant. It can be concluded that the storage, handling, and shipment of the samples did not negatively impact the quality of the data.

Organic compounds were detected in method blanks collected in the laboratory. However, because they were all "unknown" contaminants, it can be concluded that these results are due to the sensitivity of the analytical equipment and not to the presence and use of contaminated equipment, and it can be concluded the laboratory performance did not negatively impact the quality of the data.

Table 5-7. Surface Soil Chemical Data Summary

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL	TS ABOVE . SCREENING ALUE	MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	* (hâ\a)
	Inc	organics			
Aluminum	10.7	32	3	9	56,000
Antimony	82.9	32	0	0	< 82. 9
Arsenic	12.7	32	0	0	<12.7
Barium	4.87	32	10	31	954
Beryllium	0.25	32	6	19	2.42
Cadmium	0.427	32	8	25	22.1
Calcium	109	32	14	44	100,000
Chromium	0.974	32	5	16	114
Cobalt	2.5	32	5	16	90.8
Copper	3.38	32	22	69	453
Cyanide	1.22	35	0	0	1.92
Iron	12	32	7	22	69,000
Lead	10	32	15	47	9,100
Magnesium	138	32	10	31	59,000
Manganese	0.511	32	8	25	7,100
Mercury	0.087	32	1	3	0.195
Molybdenum	4	32	2	6	16.5
Nickel	7.5	32	6	19	84.4
Potassium	142	32	6	19	1,850
Selenium	12.4	32	0	0	<12.4
Silver	1.01	32	2	6	2.92
Sodium	50	32	1	3	177
Thallium	12.5	32	0	0	<12.5
Vanadium	2	32	4	12	83.4
Zinc	4	32	20	62	969

Table 5-7. Surface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	RESULTS ABOVE CONTROL SCREENING VALUE		MAXIMUM CONCENTRATION					
	CRL" (µg/g)	PECULTE		Frequency (%)	(unin)					
VOCs										
Acetone	0.045	4	0	0	<0.045					
Benzen e	0.0025	4	0	0	<0.0025					
Bromodichloromethane	0.0025	4	0	0	<0.0025					
Bromoform	0.0025	4	0	0	<0.0025					
Bromomethane	0.0031	4	0	0	<0.0031					
Carbon disulfide	0.014	4	0	0	<0.014					
Carbon tetrachloride	0.0031	4	0	0	<0.0031					
Chlorobenzene	0.0025	4	0	0	<0.0025					
Chloroethane	0.003	4	0	0	<0.003					
Chloroethene	0.0038	4	0	0	<0.0038					
Chloroform	0.0026	4	0	0	<0.0026					
Chloromethane	0.035	4	0	0	<0.035					
Dibromochloromethane	0.057	4	0	0	<0.057					
1,1-Dichlorethane	0.0025	4	0	0	<0.0025					
1,2-Dichloroethane	0.0027	4	0	0	<0.0027					
1,1-Dichloroethylene	0.32	4	0	0	<0.032					
cis-1,2-Dichloroethylene	0.0025	4	0	0	<0.0025					
trans 1,2-Dichloroethene	0.0025	4	0	0	<0.0025					
1,2-Dichloropropane	0.0025	4	0	0	<0.0025					
cis-1,3-Dichloropropylene	0.003	4	0	0	<0.003					
trans-1,3-Dichloropropylene	0.0025	4	0	0	<0.0025					
Ethylbenzene	0.0025	4	0	0	<0.0025					
Methylene chloride	0.0062	4	1	25	0.0098					
Methylethyl ketone	0.0051	4	0	0	<0.0051					
Methylisobutyl ketone	0.019	4	0	0	<0.019					

Table 5-7. Surface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL	TS ABOVE SCREENING ALUE	MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(ha\a)
Methyl-N-butyl ketone	0.018	4	0	0	<0.018
Styrene	0.0025	4	0	0	<0.0025
1,1,2,2-Tetrachloroethane	0.012	4	0	0	<0.012
Tetrachloroethylene	0.0025	4	0	0	<0.0025
1,1,1-Trichloroethane	0.0025	4	0	0	<0,0025
1,1,2-Trichloroethane	0.0025	4	0	0	<0.0025
Trichloroethylene	0.0025	4	1	25	0.0033
Trichlorofluoromethane	0.005	4	1	25	0.0075
Toluene	0.0025	4	1	25	0.0043
Xylenes	0.0075	4	0	0	<0.0075
	9	SVOCs			
Acenaphthene	0.27	4	0	0	<0.27
Acenaphthylene	0.27	4	0	0	<0.27
Anthracene	0.17	4	1	25	0.23
Benzo[a]anthracene	0.17	4	1	25	1.1
Benzo[a]pyrene	0.24	4	2	50	1.4
Benzo[b]fluoranthene	0.73	4	1	25	1.8
Benzo[g,h]perylene	0.25	4	1	25	0.98
Benzo[k]fluoranthene	0.4	4	1	25	1
Benzoic acid	0.92	4	0	0	<0.92
Benzyl alcohol	0.17	4	0	0	<0.17
Bis (2-chloroethoxy) methane	0.17	4	0	0	<0.17
Bis (2-chloroethyl) ether	1.6	4	0	0	<1.6
Bis (2-chloroisopropyl) ether	0.17	4	0	0	<0.17
Bis (2-ethylhexyl) phthalate	0.19	4	1	25	0.37
4-Bromophenylphenyl ether	0.17	4	0	0	<0.17

Table 5-7. Surface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF		TS ABOVE SCREENING ALUE	MAXIMUM CONCENTRATION
	(ha/a) Cur	RESULTS	Number	Frequency (%)	(µg/g)
Butylbenzyl phthalate	0.2	4	0	0	<0.2
4-Chloroaniline	-0.33	4	0	0	<0.33
2-Chloronaphthalene	0.33	4	0	0	<0.33
Chiorophenois	0.17	4	0	0	<0.17
4-Chlorophenylphenyl ether	0.2	4	0	0	<0.2
Chrysene	0.27	4	1	25	0.88
Dibenz[a,h]anthracene	0.27	4	0	0	<0.27
Dibenzofuran	0.17	4	0	0	<0.17
1,2-Dichlorobenzene	0.32	4	0	0	<0.32
1,3-Dichlorobenzene	0.58	4	0	0	<0.58
1,4-Dichlorobenzene	0.17	4	0	0	<0.17
3,3 Dichlorobenzidine	0.66	4	0	0	<0.66
2,4-Dichlorophenol	0.28	4	0	0	<0.28
Diethyl phthalate	0.35	4	0	0	<0.35
2,4-Dimethylphenol	0.33	4	0	0	<0.33
Dimethyl phthalate	0.17	4	0	0	<0.17
Di-N-butyl phthalate	0.51	4	0	0	<0.51
Di-N-octyl phthalate	0.22	4	0	0	<0.22
2,4-Dinitrophenol	1.7	4	0	0	<1.7
Fluoranthene	0.17	4	1	25	2.4
Fluorene	0.17	4	0	0	<0.17
Hexachloreobenzene	0.26	4	0	0	<0.26
Hexachlorobutadiene	0.28	4	0	0	<0.28
Hexachlorocyclopentadiene	1.8	4	0	0	<1.8
Hexachloroethane	0.17	4	0	0	<0.17
Indeno[1,2,3-c,d]pyrene	0.17	4	1	25	1.2

Table 5-7. Surface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL	TS ABOVE SCREENING ALUE	MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(ha\a)
Isophorone	0.32	4	0	0	<0.32
3-Methyl-4-chlorophenol	0.23	4	0	0	<0.23
2-Methyl-4,6-dinitrophenal	0.84	4	0	0	<0.84
2-Methylnaphthalene	0.17	4	0	0	<0.17
2-Methylphenol	0.17	4	0	0	<0.17
4-Methylphenol	0.18	4	0	0	<0.18
Naphthalene	0.17	4	0	0	<0.17
2-Nitroaniline	0.36	4	0	0	<0.36
3-Nitroaniline	1.7	4	0	0	<1.7
4-Nitroaniline	1.7	4	0	0	<1.7
Nitrobenzene	0.19	4	0	0	<0.19
2-Nitrophenol	0.26	4	0	0	<0.26
4-4-Nitrophenol	2.5	4	0	0	<2.5
N-Nitrosodi-N-propylamine	1.1	4	0	0	<1.1
N-Nitrosodiphenylamine	0.17	4	0	0	<0.17
Pentachlorophenol	0.48	4	0	0	<0.48
Phenanthrene	0.17	4	1	25	0.83
Phenol	0.17	4	0	0	<0.17
Pyrene	0.97	4	1	25	1.4
1,2,4-Trichlorobenzene	0.29	4	0	0	<0.29
2,4,5-Trichlorophenol	0.24	4	0	0	<0.24
2,4,6-Trichlorophenol	0.3	4	0	0	<0.3
	Ехр	losives			
1,3-Dinitrobenzene	0.249	26	0	0	<0.249
2,4-Dinitrotoluene	0.251	26	1	4	0.448
2,6-Dinitrotoluene	0.5	26	0	0	<0.5

Table 5-7. Surface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL	TS ABOVE SCREENING ALUE	MAXIMUM CONCENTRATION	
	CRL."	RESULTS	Number	Frequency (%)	(ha\a)	
нмх	0.499	26	1	4	1.01	
Nitroglycerine	2.5	26	1	4	17.6	
2-Nitrotoluene	0.505	26	0	0	<0.505	
3-Nitrotoluene	0.251	26	0	0	<0.251	
4-Nitrotoluene	0.245	26	0	0	<0.245	
Pentaerythritol tetranitrate	2.5	26	0	0	<2.5	
RDX	0.51	26	0	0	<0.51	
Tetryl	1.27	26	0	0	<1.27	
1,3,5-Trinitrobenzene	0.25	26	0	0	<0.25	
2,4,6-Trinitrotoluene	0.25	26	1	4	1.28	
	Pestic	ides/PCBs				
Aldrin	0.013	1	0	0	<0.013	
alpha-Benzenehexachloride	0.0025	1	0	0	<0.0025	
beta-Benzenehexachloride	0.0054	1	0	0	<0.0054	
delta-Benzenehexachloride	0.0228	1	0	0	<0.0228	
2,2-Bis (p-chlorophenyl)-1,1-dichloroethane	0.0112	1	0	0	<0.0112	
2,2-Bis (p-chlorophenyl)-1,1-dichloroethene	0.0142	1	0	0	<0.0142	
2,2-Bis (p-chlorophenyl)-1,1,1-trichloroethane	0.0096	1	0	0	<0.0096	
alpha-Chlordane	0.004	1	0	0	<0.004	
gamma-Chlordane	0.0214	1	0	0	<0.0214	
Dieldrin	0.0078	1	0	0	<0.0078	
alpha-Endosulfan	0.0047	1	0	0	<0.0047	
beta-Endosulfan	0.0071	1	0	0	<0.0071	
Endrin	0.0111	1	0	0	<0.0111	
Endrin aldehyde	0.0276	1	0	0	<0.0276	
Endrin ketone	0.0061	1	0	0	<0.0061	

Table 5-7. Surface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL	TS ABOVE SCREENING ALUE	MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(hā/ā)
Endosulfan sulfate	0.013	1	0	0	<0.013
Heptachlor	0.0096	1	0	0	<0.0096
Heptachlor epoxide	0.0039	1	0	0	<0.0039
Lindane	0.02	1	0	0	<0.02
Methoxychlor	0.211	1	0	0	<0.211
PCB 1016	0.04	1	0	0	<0.04
PCB 1221	0.08	1	0	0	<0.08
PCB 1232	0.04	1	0	0	<0.04
PCB 1242 .	0.04	1	0	0	<0.04
PCB 1248	0.04	1	0	0	<0.04
PCB 1254	0.04	1	0	0	<0.04
PCB 1260	0.04	1	0	0	<0.04
Toxaphene	0.2	1	0	0	<0.2
	Other	Analyses			
Nitrate/Nitrite	1.00	5	1	20	4.14
TPHC	10*	12	12	100	658
тос	40°	9	0	0	17,900

Limit of Detection - No "CRL" for these methods "Pace Laboratories

Table 5-8. Subsurface Soil Chemical Data Summary

ELEMENTS/COMPOUNDS		NUMBER OF		S ABOVE SCREENING LUE	MAXIMUM CONCENTRATION
njara i fraj	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(ha\a)
		Inorganics			
Aluminum	10.7	37	7	19	27,000
Antimony	82.9	37	0	0	<82.9
Arsenic	12.7	37	0	0	<12.7
Barium	4.87	37	6	16	547
Beryllium	0.25	37	3	8	3.66
Cadmium	0.427	37	1	3	6.51
Calcium	109	37	3	в	1,860
Chromium	0.974	37	2	5	70.9
Cobalt	2.5	37	8	22	66.8
Copper	3.38	37	7	19	146
Cyanide	1.22	36	0	0	<1.22
Iron	12	37	3	θ	53,000
Lead	10	37	4	11	136
Magnesium	138	37	5	14	1,990
Manganese	0.511	37	8	22	3,600
Mercury	0.087	37	5	14	0.521
Molybdenum	4	37	0	0	5.87
Nickel	7.5	37	6	16	61
Potassium	142	37	9	24	928
Selenium	12.4	37	0	0	<12.4
Silver	1.01	37	0	0	<1.01
Sodium	50	37	θ	22	278
Thallium	12.5	37	0	0	<12.5
Vanadium	2	37	2	5	76.5
Zinc	4	37	3	8	336

Table 5-8. Subsurface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL	S ABOVE SCREENING LUE	MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(ha\a)
		VOCs			
Acetone	0.045	8	3	38	0.1
Benzene	0.0025	8	0	С	<0.0025
Bromodichloromethane	0.0025	8	0	0	<0.0025
Bromotorm	0.0025	8	0	0	<0.0025
Bromomethane	0.0031	8	0	0	<0.0031
Carbon disulfide	0.014	8	0	0	<0.014
Carbon tetrachloride	0.0031	8	0	0	<0.0031
Chlorobenzene	0.0025	8	0	0	<0.0025
Chloroethane	0.003	8	0	0	<0.003
Chloroethene	0.0038	8	0	0	<0.0038
Chloroform	0.0026	8	0	0	<0.0026
Chloromethane	0.035	8	0	0	<0.035
Dibromochloromethane	0.057	8	0	0	<0.057
1,1-Dichlorethane	0.0025	8	0	0	<0.0025
1,2-Dichloroethane	0.0027	8	0	0	<0.0027
1,1-Dichloroethylene	0.32	8	0	0	<0.032
cis-1,2-Dichloroethylene	0.0025	8	0	0	<0.0025
trans-1,2-Dichloroethylene	0.0025	8	0	0	<0.0025
1,2-Dichloropropane	0.0025	8	0	0	<0.0025
cis-1,3-Dichloropropylene	0.003	8	0	0	<0.003
trans-1,3-Dichloropropylene	0.0025	8	0	0	<0.0025
Ethylbenzene	0.0025	8	0	0	<0.0025
Methylene chloride	0.0062	8	2	25	0.03
Methylethyl ketone	0.0051	8	0	0	<0.0051

Table 5-8. Subsurface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL	S ABOVE SCREENING LUE	MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(ha\a)
Methylisobutyl ketone	0.019	8	0	0	<0.019
Methyl-N-butyl ketone	0.018	8	0	0	<0.018
Styrene	0.0025	8	0	0	<0.0025
1,1,2,2-Tetrachloroethane	0.012	8	0	0	<0.012
Tetrachloroethylene	0 .0025	8	0	0	<0.0025
1,1,1-Trichloroethane	0.0025	8	0	0	<0.0025
1,1,2-Trichloroethane	0.0025	8	0	0	<0.0025
Trichloroethylene	0.0025	8	11	13	0.011
Trifluorochloromethane	0.005	8	0	0	<0.005
Toluene	0.0025	8	0	0	<0.0025
Xylenes	0.0075	8	0	0	<0.0075
		SVOCs			
Acenaphthene	0.27	8	0	0	<0.27
Acenaphthylene	0.27	8	0	0	<0.27
Anthracene	0.17	8	0	0	<0.17
Benzo[a]anthracene	0.17	8	0	0	<0.17
Benzo[a]pyrene	0.24	88	0	0	<0.24
Benzo[b]fluoranthene	0.73	8	00	0	<0.73
Benzo[g,h]perylene	0.25	8	0	0	<0.25
Benzo[k]fluoranthene	0.4	8	0	0	<0.4
Benzoic acid	0.92	8	0	0	<0.92
Benzyl alcohol	0.17	8	0	0	<0.17
Bis (2-chloroisopropyl) ether	0.17	8	0	0	<0.17
Bis (2-chloroethyl) ether	1.6	8	0	0	<1.6
Bis (2-chloroethoxy) methane	0.17	8	0	0	<0.17
Bis (2-ethylhexyl) phthalate	0.19	8	0	0	<0.19

Table 5-8. Subsurface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL	S ABOVE SCREENING LUE	MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(ha\a)
4-Bromophenylphenyl ether	0.17	8	0	0	<0.17
Butylbenzyl phthalate	0.2	8	0	0	<0.2
4-Chloroaniline	0.33	8	0	0	<0.33
2-Chloronaphthalene	0.33	8	0	0	<0.33
Chlorophenols	0.17	8	0	0	<0.17
4-Chlorophenylphenyl ether	0.2	8	0	0	<0.2
Chrysene	0.27	8	0	0	<0.27
Dibenz(a,h]anthracene	0.27	8	0	0	<0.27
Dibenzofuran	0.17	8	0	0	<0.17
1,2-Dichlorobenzene	0.32	8	0	0	<0.32
1,3-Dichlorobenzene	0.58	8	0	0	<0.58
1,4-Dichlorobenzene	0.17	8	0	0	<0.17
3,3 Dichlorobenzidine	0.66	8	0	0	<0.66
2,4-Dichlorophenol	0.28	8	0	0	<0.28
Diethyl phthalate	0.35	8	0	0	<0.35
2,4-Dimethylphenol	0.33	8	0	0	<0.33
Dimethyl phthalate	0.17	8	0	0	<0.17
Di-N-butyl phthalate	0.51	8	0	0	<0.51
Di-N-octyl phthalate	0.22	8	0	0	<0.22
2,4-Dinitrophenol	1.7	8	0	0	<1.7
Fluoranthene	0.17	8	0	0	2.4
Fluorene	0.17	8	0	0	<0.17
Hexachloreobenzene	0.26	8	0	0	<0.26
Hexachlorobutadiene	0.28	8	0	0	<0.28
Hexachlorocyclopentadiene	1.8	8	0	0	<1.8
Hexachloroethane	0.17	8	0	0	<0.17

Table 5-8. Subsurface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL	S ABOVE SCREENING LUE	MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(ha\a)
Indeno[1.2,3-c,d]pyrene	0.17	8	0	0	1.2
Isophorone	0.32	8	0	0	<0.32
3-Methyl-4-chlorophenol	0.23	8	0	0	<0.23
2-Methyl-4,6-dinitrophenol	0.84	8	0	0	<0.84
2-Methylnaphthalene	0.17	8	0	0	<0.17
2-Methylphenol	0.17	8	0	0	<0.17
4-Methylphenol	0.18	8	0	0	<0.18
Naphthalene	0.17	8	0	0	<0.17
2-Nitroaniline	0.36	8	0	0	<0.36
3-Nitroaniline	1.7	8	0	0	<1.7
4-Nitroaniline	1.7	8	0	0	<1.7
Nitrobenzene	0.19	8	0	0	<0.19
2-Nitrophenol	0.26	8	0	0	<0.26
4-4-Nitrophenol	2.5	8	0	0	<2.5
N-Nitrosodi-N-propylamine	1.1	8	0	0	<1.1
N-Nitrosodiphenylamine	0.17	8	0	0	<0.17
Pentachiorophenoi	0.48	8	0	0	<0.48
Phenanthrene	0.17	8	0	_ 0	0.83
Phenol	0.17	8	0	0	<0.17
Pyrene	0.97	8	0	0	1.4
1,2,4-Trichlorobenzene	0.29	8	0	0	<0.29
2,4,5-Trichlorophenol	0.24	8	0	0	<0.24
2,4,6-Trichlorophenol	0.3	8	0	0	<0.3
		Explosives			
1,3-Dinitrobenzene	0.249	37	0	0	<0.249
2,4-Dinitrotoluene	0.251	37	0	0	<0.251

Table 5-8. Subsurface Soil Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CONTROL	S ABOVE SCREENING LUE	MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(ha\a)
2,6-Dinitrotoluene	0.5	37	0	0	<0.5
нмх	0.499	37	0	0	<0.499
Nitroglycerine	2.5	37	0	С	<2.5
2-Nitrotoluene	0.505	37	0	0	<0.505
3-Nitrotoluene	0.251	37	0	0	<0.251
4-Nitrotoluene	0.245	37	0	0	<0.245
Pentaerythritol tetranitrate	2.5	37	0	0	<2.5
RDX	0.51	37	0	0	<0.51
Tetryl	1.27	37	0	0	<1.27
1,3,5-Trinitrobenzene	0.25	37	0	0	<0.25
2,4.6-trinitrotoluene	0.25	37	0	0	<0.25
		Other Analyse	es		
Nitrate/Nitrite	1.00°	23	1	4	2.58
TPHC	10°	14	6	43	62.8
TOC	40°	2	2	100	6,970

Limit of detection Pace Laboratories

Table 5-9. Sediment Chemical Data Summary

ELEMENTS/COMPOUNDS		NUMBER OF	COI	TS ABOVE NTROL ING VALUE	MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(hā/ā)
	Inc	organics			
Aluminum	10.7	14	0	0	22,000
Antimony	82.9	14	0	0	<82.9
Arsenic	12.7	14	0	0	<12.7
Banum	4.87	14	0	0	73.9
Beryllium	0.25	14	0	0	1.18
Cadmium	0.427	14	1	7	0.899
Calcium	109	14	3	21	3,850
Chromium	0.974	14	2	14	55.4
Cobalt	2.5	14	0	0	55.8
Copper	3.38	14	1	7	97.6
Cyanide	1.22	15	0	0	<1.22
Iron	12	14	1	7	96,000
Lead	10	14	1	7	45.1
Magnesium	138	14	1	7	1,190
Manganese	0.511	14	1	7	1,400
Mercury	0.087	14	0	0	<0.087
Molybdenum	4	14	0	0	<4
Nickel	7.5	14	0	0	28.9
Potassium	142	14	0	0	846
Selenium	12.4	14	0	0	<12.4
Silver	1.01	13	0	0	<1.01
Sodium	50	14	0	0	91.5
Thallium	12.5	14	0	0	<12.5
Vanadium	2	14	0	0	88.4
Zinc	4	14	1	7	422

Table 5-9. Sediment Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	RESULTS ABOVE CONTROL SCREENING VALUE		MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(µg/g)
		VOCs			
Acetone	0.045	1	1	100	0.14
Benzene	0.0025	1	0	0	<0.0025
Bromodichloromethane	0.0025	1	0	0	<0.0025
Bromoform	0.0025	1	0	0	<0.0025
Bromomethane	0.0031	1	0	0	<0.0031
Carbon disulfide	0.014	1	0	0	<0.014
Carbon tetrachloride	0.0031	1	0	0	<0.0031
Chlorobenzene	0.0025	1	0	0	<0.0025
Chloroethane	0.003	1	0	0	<0.003
Chloroethene	0.0038	1	0	0	<0.0038
Chloroform	0.0026	1	0	0	<0.0026
Chloromethane	0.035	1	0	0	<0.035
Dibromochloromethane	0.057	1	0	0	<0.057
1,1-Dichlorethane	0.0025	1	0	0	<0.0025
1,2-Dichloroethane	0.0027	1	0	0	<0.0027
1,1-Dichloroethylene	0.32	1	0	0	<0.032
cis-1,2-Dichloroethylene	0.0025	1	0	0	<0.0025
trans-1,2-Dichloroethylene	0.0025	1	0	0	<0.0025
1,2-Dichloropropane	0.0025	1	0	0	<0.0025
cis-1,3-Dichloropropylene	0.003	1	0	0	<0.003
trans-1,3-Dichloropropylene	0.0025	1	0	0	<0.0025
Ethylbenzene	0.0025	1	0	0	<0.0025
Methylene chloride	0.0062	1	0	0	0.0098
Methylethyl ketone	0.0051	1	1	100	0.025
Methylisobutyl ketone	0.019	1	0	0	<0.019

Table 5-9. Sediment Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	CO	TS ABOVE NTROL ING VALUE	MAXIMUM CONCENTRATION
Mathul N huhd katana	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(µg/g)
Methyl-N-butyl ketone	0.018	1	0	0	<0.018
Styrene	0.0025	1	0	0	<0.0025
1,1,2,2-Tetrachloroethane	0.012	1	0	0	<0.012
Tetrachloroethylene	0.0025	1	0	0	<0.0025
1,1,1-Trichloroethane	0.0025	1	0	0	<0.0025
1,1,2-Trichloroethane	0.0025	1	0	0	<0.0025
Trichloroethylene	0.0025	1	0	0	<0.0025
Trifluorochloromethane	0.005	1	0	0	0.0075
Toluene	0.0025	1	0	0	0.0043
Xylenes	0.0075	1	0	0	<0.0075
	(SVOCs			
Acenaphthene	0.27	1	0	0	<0.27
Acenaphthylene	0.27	1	0	0	<0.27
Anthracene	0.17	1	0	0	<0.17
Benzo[a]anthracene	0.17	1	1	100	0.51
Benzo[a]pyrene	0.24	1	1	100	0.58
Benzo[b]fluoranthene	0.73	1	0	0	<0.73
Benzo[g,h]perylene	0.25	1	0	0	<0.25
Benzo[k]fluoranthene	0.4	1	0	0	<0.4
Benzoic acid	0.92	1	0	0	<0.92
Benzyl alcohol	0.17	1	0	0	<0.17
Bis (2-chloroisopropyl) ether	0.17	1	0	0	<0.17
Bis (2-chloroethyl) ether	1.6	1	0	0	<1.6
Bis (2-chloroethoxy) methane	0.17	1	0	0	<0.17
Bis (2-ethylhexyl) phthalate	0.19	1	0	0	<0.19
4-Bromophenylphenyl ether	0.17	1	0	0	<0.17

Table 5-9. Sediment Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	RESULTS ABOVE CONTROL SCREENING VALUE		MAXIMUM CONCENTRATION
- 10 (17) (17) (17) (17) (17) (17) (17) (17)	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(ha\a)
Butylbenzyl phthalate	0.2	1	0	0	<0.2
4-Chloroaniline	0.33	1	0	0	<0.33
2-Chloronaphthalene	0.33	1	0	0	<0.33
Chiorophenols	0.17	1	0	0	<0.17
4-Chiorophenylphenyl ether	0.2	1	0	0	<0.2
Chrysene	0.27	1	1	100	0.71
Dibenz[a,h]anthracene	0.27	1	0	0	<0.27
Dibenzofuran	0.17	1	0	0	<0.17
1,2-Dichlorobenzene	0.32	1	0	0	<0.32
1.3-Dichlorobenzene	0.58	1	0	0	<0.58
1,4-Dichlorobenzene	0.17	_ 1	0	0	<0.17
3,3 Dichlorobenzidine	0.66	11	0	0	<0.66
2,4-Dichlorophenol	0.28	1	0	0	<0.28
Diethyl phthalate	0.35	1	0	0	<0.35
2.4-Dimethylphenol	0.33	1	0	0	<0.33
Dimethyl phthalate	0.17	1	0	0	<0.17
Di-N-butyl phthalate	0.51	1	0	0	<0.51
Di-N-octyl phthalate	0.22	1	0	0	<0.22
2,4-Dinitrophenol	1.7	1	0	0	<1.7
Fluoranthene	0.17	1	1	100	0.88
Fluorene	0.17	1	0	0	<0.17
Hexachloreobenzene	0.26	1	0	0	<0.26
Hexachlorobutadiene	0.28	1	0	0	<0.28
Hexachlorocyclopentadiene	1.8	1	0	0	<1.8
Hexachloroethane	0.17	1	0	0	<0.17
Indeno[1,2,3-c,d]pyrene	0.17	1	0	0	1.2

Table 5-9. Sediment Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS	(hā/ā) CUF.,	NUMBER OF RESULTS	CO	TS ABOVE NTROL IING VALUE Frequency (%)	MAXIMUM CONCENTRATION (µg/g)
Isophorone	0.32	1	0	0	<0.32
3-Methyl-4-chlorophenol	0.23	11	0	0	<0.23
2-Methyl-4,6-dinitrophenol	0.84	1	0	0	<0.84
2-Methylnaphthalene	0.17	1	0	0	<0.17
2-Methylphenol	0.17	1	0	0	<0.17
4-Methylphenol	0.18	1	0	0	<0.18
Naphthalene	0.17	1	0	0	<0.17
2-Nitroaniline	0.36	1	0	0	<0.36
3-Nitroaniline	1.7	1	0	0	<1.7
4-Nitroaniline	1.7	1	0	0	<1.7
Nitrobenzene	0.19	1	0	0	<0.19
2-Nitrophenol	0.26	1	0	0	<0.26
4-4-Nitrophenol	2.5	1	0	0	<2.5
N-Nitrosodi-N-propylamine	1.1	1	0	0	<1.1
N-Nitrosodiphenylamine	0.17	1	0	0	<0.17
Pentachlorophenol	0.48	1	0	0	<0.48
Phenanthrene	0.17	1	0	0	0.83
Phenol	0.17	1	0	0	<0.17
Pyrene	0.97	1	0	0	1.4
1,2.4-Trichlorobenzene	0.29	1	0	0	<0.29
2,4,5-Trichlorophenol	0.24	1	0	0	<0.24
2,4,6-Trichlorophenol	0.3	1	0	0	<0.3
	Ex	olosives			
1,3-Dinitrobenzene	0.249	17	0	0	<0.249
2,4-Dinitrotoluene	0.251	17	0	0	<0.251
2,6-Dinitrotoluene	0.5	17	0	0	<0.5

Table 5-9. Sediment Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	RESULTS ABOVE CONTROL SCREENING VALUE		MAXIMUM CONCENTRATION
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(µg/g)
НМХ	0.499	17	0	0	<0.499
Nitroglycerine	2.5	17	0	0	<2.5
2-Nitrotoluene	0.505	17	0	0	<0.505
3-Nitrotoluene	0.251	17	0_	0	<0.251
4-Nitrotoluene	0.245	17	0	0	<0.245
Pentaerythritol tetranitrate	2.5	17	0	0	<2.5
RDX	0.51	17	0	0	<0.51
Tetryl	1.27	17	0	0	<1.27
1,3,5-Trinitrobenzene	0.25	17	0	0	<0.25
2,4,6-trinitrotoluene	0.25	17	0	0	<0.25
	Pestic	ides/PCBs			
Aldrin	0.013	1	0	0	<0.013
alpha-Benzenehexachloride	0.0025	1	0	0	<0.0025
beta-Benzenehexachloride	0.0054	1	0	0	<0.0054
delta-Benzenehexachloride	0.0228	1	0	0	<0.0228
2,2-Bis (p-chlorophenyl)-1,1-dichloroethane	0.0112	1	0	0	<0.0112
2,2-Bis (p-chlorophenyl)-1,1-dichloroethene	0.0142	1	0	0	<0.0142
2,2-Bis (p-chlorophenyl)-1,1,1-trichloroethane	0.0096	1	0	0	<0.0096
alpha-Chlordane	0.004	1	0	0	<0.004
gamma-Chlordane	0.0214	1	0	0	<0.0214
Dieldrin	0.0078	1	0	0	<0.0078
alpha-Endosulfan	0.0047	1	0	0	<0.0047
beta-Endosulfan	0.0071	1	0	0	<0.0071
Endrin	0.0111	1	0	0	<0.0111
Endrin aldehyde	0.0276	1	0	0	<0.0276
Endrin ketone	0.0061	1	0	0	<0.0061

Table 5-9. Sediment Chemical Data Summary (Continued)

ELEMENTS/COMPOUNDS		NUMBER OF	RESULTS ABOVE CONTROL SCREENING VALUE		MAXIMUM CONCENTRATION	
	CRL" (µg/g)	RESULTS	Number	Frequency (%)	(hā/ā)	
Endosulfan sulfate	0.013	1	0	0	<0.013	
Heptachlor	0.0096	1	0	0	<0.0096	
Heptachlor epoxide	0.0039	1	0	0	<0.0039	
Lindane	0.02	1	0	0	<0.02	
Methoxychlor	0.211	1	0	0	<0.211	
PCB 1016	0.04	1	0	0	<0.04	
PCB 1221	0.08	1	0	0	<0.08	
PCB 1232	0.04	1	0	0	<0.04	
PCB 1242	0.04	1	0	0	<0.04	
PCB 1248	0.04	1	0	0	<0.04	
PCB 1254	0.04	1	1	100	0.21	
PCB 1260	0.04	1	0	0	<0.04	
Toxaphene	0.2	1	0	0	<0.2	
Other Analyses						
Nitrate/Nitrite	1.00	8	1	12	2.07	
TPHC	10°	2	2	100	110	
тос	40°	2	2	100	9,230	

Limit of Detection - No "CRL" for these methods "Pace Laboratories

5.3 FIELD INVESTIGATIONS

This section presents a discussion, on a SWMU-by-SWMU basis, of investigations and sampling activities that were conducted, and the results of laboratory analyses that were reported for collected samples. Only analytical results that exceeded control screening values (listed in Tables 5-1 through 5-4) are presented for each SWMU.

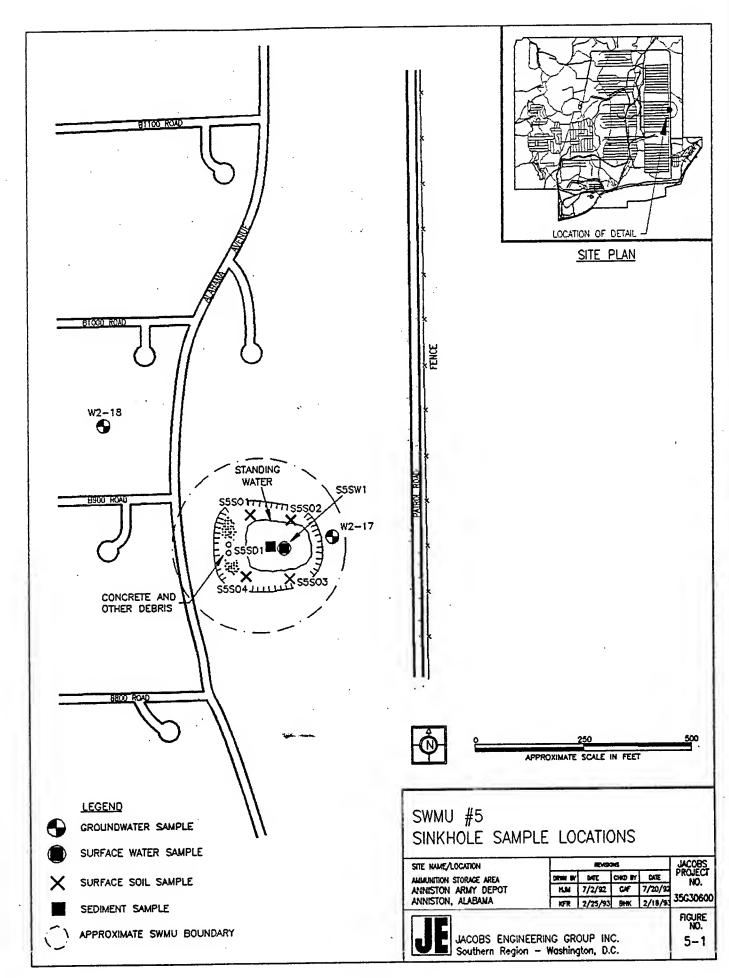
5.3.1 SWMU #5 - Sinkhole

Limited environmental media sampling had been conducted in previous investigations. Historical chemical analysis data are available for a few metals and organic chemicals from previous surface water and sediment sampling activities. Chromium, manganese, and strontium were detected in surface water samples collected from the Sinkhole in December 1981. Chromium, mercury, and nickel were detected in a sediment sample collected during the same sampling campaign. Traces of organic chemicals were also detected in the sediment sample. Historical groundwater data provide a listing of a greater number of metals and organic compounds.

Disposal of wastes containing contaminants other than those found in previous investigations may have taken place over the years of ANAD operations (ESE, 1989). Therefore, selected environmental media samples collected for the ESI from SWMU #5 were analyzed for parameters that included inorganics, VOCs, SVOCs, pesticides/PCBs, and explosives.

Construction debris, railroad ties, and other miscellaneous municipal-type wastes such as discarded telephones, containers, etc. were found in the sinkhole during the ESI. Also, during ESI field activities, the wall and rim of the Sinkhole were noted to be well-vegetated and showed no signs of recent disturbance. No swallett openings were discovered either by visual observation or by systematically probing the bottom of the sinkhole with a hand auger.

5.3.1.1 <u>Investigative Activities</u>. Four surface soil samples, one sediment sample, one surface water sample, and groundwater samples from two existing monitoring wells were collected at SWMU #5. The sample locations are identified in Figure 5-1. A summary of chemical analysis of the samples is presented in Table 5-10.



5.3.1.2 Results of Investigation.

Surface Soil Samples — Four surface soil samples were collected at SWMU #5. Identified as S5S01, S5S02, S5S03, and S5S04, these samples were analyzed for inorganics and explosives. Sample S5S04 was also analyzed for pesticides/PCBs, VOCs and SVOCs. Explosives and organics were not detected in any of the samples. All detections above control screening values were inorganics, and are tabulated in Table 5-10. These include aluminum, barium, beryllium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, vanadium, and zinc.

Sediment Samples — One sediment sample was collected 6 inches below the surface water/sediment interface in the sinkhole. Identified as S5SD1, this sample was analyzed for VOCs, SVOCs, inorganics, explosives, and pesticides/PCBs. Contaminants in the sediment sample detected above control screening values are tabulated in Table 5-10. Cyanide and explosives were not detected in the sample. PCB 1254 was detected in the sediment sample at a concentration of 0.21 µg/g. The VOCs acetone and methylethyl ketone, as well as the SVOCs benzo(a)anthracene, benzo(a)pyrene, chrysene, and fluoranthene were detected in trace concentrations. Calcium and zinc are the only inorganics reported at concentrations above control screening values.

Groundwater Samples — Groundwater samples were collected from existing groundwater monitoring wells W2-17 and W2-18. Samples were analyzed for VOCs, SVOCs, inorganics, explosives, and pesticides/PCBs. Potential contaminants are listed in Table 5-10.

Surface Water Samples — One surface water sample (S5SW1) was collected from the standing water located in the sinkhole. Samples were analyzed for VOCs, SVOCs, inorganics, pesticides/PCBs, and explosives. Analytical results are presented in Table 5-10. All contaminants detected at concentrations above control screening values are inorganics.

Table 5-10. SWMU #5 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ANALYTE/ COMPOUND	CONCENTRATION (µg/g)
SEDIMENT	S5SD1	0.5	Calcium	3,850
			Zinc	422
			PCB 1254	0.21
			Benzo(ajanthracene	0.51
			Benzo[a]pyrene	0.58
			Chrysene	0.71
			Fluoranthene	0.88
			Acetone	0.14
			Methylethyl ketone	0.025
SURFACE SOIL	S5S01	0.5	Calcium	1,760
			Chromium	51.6
			Copper	33.9
			Iron	47,000
			Vanadium	83.4
			Zinc	221
	S5S02	0.5	Aluminum	41,000
			Barium	102
		!	Beryllium	1.01
			Calcium	2,210
			Chromium	46.5
			Cobalt	42.5
			Copper	35.1
			Iron	51,000
			Manganese	1,400
			Nickel	25.5
			Potassium	1,340
			Vanadium	83.3
			Zinc	220

Table 5-10. SWMU #5 — Data Summary (Continued)

MATRIX	SAMPLE I.D.	DEPTH (ft)	ANALYTE/ COMPOUND	CONCENTRATION (µg/g)
SURFACE SOIL	S5S03	0.5	Aluminum	56,000
			Barium	123
			Beryllium	1.04
			Calcium	6,000
			C hromium	101
			Cobalt	42
			Copper	37.6
			Iron	39,000
			Lead	338
			Magnesium	1,480
			Manganese	2,700
			Nickel	30.6
			Potassium	1,750
			Vanadium	80.5
			Zinc	155
SURFACE SOIL	S5S 0 4	0.5	Aluminum	37,000
			Barium	161
			Beryllium	1.02
			Calcium	1,770
			Cobalt	32.1
			Copper	21.6
			Manganese	2,700
			Potassium	1,300
			Zinc	95.6

Table 5-10. SWMU #5 — Data Summary (Continued)

MATRIX	SAMPLE I.D.	DEPTH (ft)	ANALYTE/ COMPOUND	CONCENTRATION (µg/l)
GROUNDWATER	W2-18	49		
			Beryilium	3.22
			Cobalt	433
			Iron	99,000
			Lead	137
			Nickel	128
			Vanadium	102
	W2-17	38	Calcium	38,400
			Potassium	12,300
SURFACE WATER	\$5\$W1	o	Aluminum	111
			Barium	188
		:	Calcium	130,000
			Iron	481
			Magnesium	12,200
			Manganese	1,010
			Potassium	20,200
			Sodium	2,810
			Zinc	450

5.3.2 SWMU #8 — Acid Disposal Pit

Previous investigations reported uncertainty about the location of this SWMU. Visual inspections of the suspected SWMU #8 location identified in the ESI Work Plan were conducted by a Jacobs geologist on three occasions. These inspections were focused on the area between the railroad tracks east of Building 611 and Benecia Avenue, west and north of storage igloo CV-809. Two inspections were made in December 1991 prior to conducting geophysical surveys of the area. The third inspection was conducted with an observer from USATHAMA in February 1992 prior to collecting environmental samples.

No evidence was observed that would indicate the presence of a buried concrete-lined pit or that heavy equipment operations associated with burial activity had occurred in that area. The inspected area was covered mainly with pine trees as large as 18 inches in diameter, briary undergrowth, and grass. Several small earthen mounds and a bulldozer cut across the creek were observed in the area immediately west of igloo C-809. A former roadbed and dilapidated wooden bridge abutment were located at the northern end of the investigated area north of the igloo. The northwest portion of the inspected area was covered by a large pile of bauxite (aluminum ore).

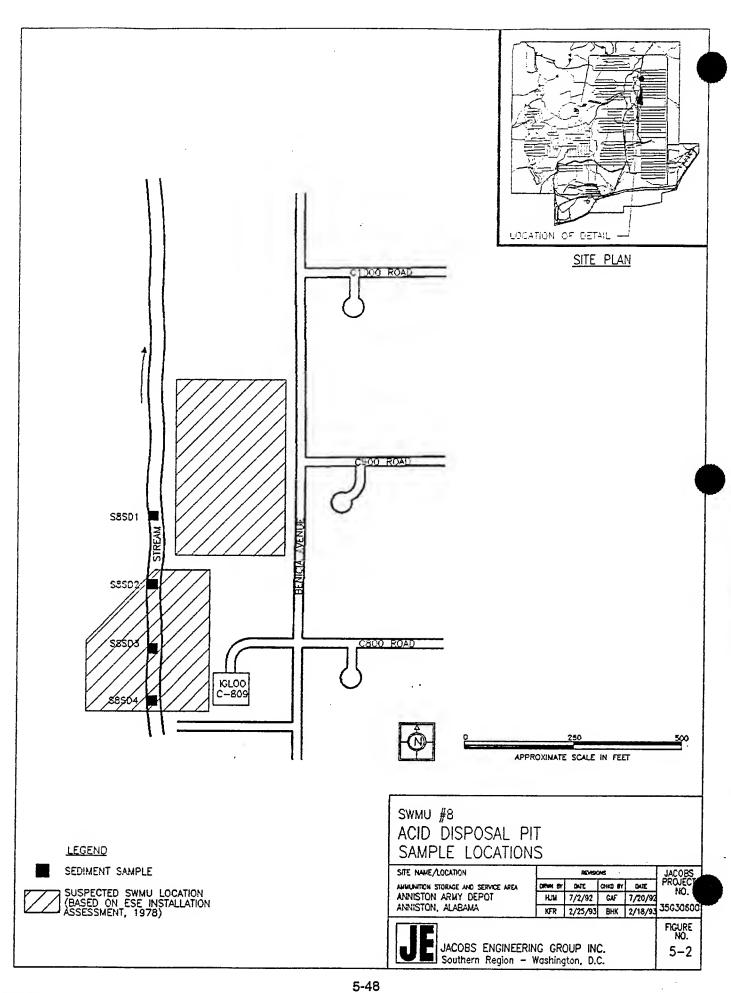
Although no surficial evidence for SWMU #8 was observed during the first two visual inspections, geophysical survey grids were established at two locations on the site (shaded areas marked on Figure 5-2). The rationale for proceeding with the geophysical surveys was based on rapid pine tree growth rate and a possibility that these trees and other vegetation may have obscured any surface evidence of the buried SWMU. It was expected that sufficient contrast in conductivities would be observed between native soils and the drums, sand, and concrete associated with the pit. The bauxite pile was excluded from the survey because the material would probably mask contrasts in conductivity of any features buried beneath the pile.

Expanded Site Inspection of the Ammunition Storage Area

5.3.2.1 Investigative Activities. Geophysical surveys were conducted at SWMU #8 in December 1991 using magnetometry and electromagnetics. Mounds of earth observed during the visual inspection were screened with the magnetometer for any indication of buried metal objects prior to running the electromagnetic (EM) surveys. No magnetometer readings were observed that would suggest buried metal (drums, reinforcing rod, etc.) beneath the earthen mounds. EM surveys of the gridded areas also showed no indication of a buried pit, although two anomalies of high conductivity are shown in the grid 8B EM survey results. Results of the EM surveys are presented in Appendix C.

Because SWMU #8 was not positively located in the geophysical surveys, soil borings, groundwater monitoring wells, and surface soil sampling points could not be located in an area potentially affected by reported contaminants with any degree of confidence. The drilling and soil sampling programs for SWMU #8 were suspended by a representative of USATHAMA, with concurrence of a representative from EPA Region IV.

At the direction of USATHAMA, sediment sampling sites were located at four areas along the stream west of C-809. Samples S8SD1 and S8SD4 were collected at stream level. Samples S8SD2 and S8SD3 were collected approximately two feet above stream level where seeps of groundwater were noted in the stream bank. These sediment samples were submitted for analysis of inorganics and explosives. Sample locations for SWMU #8 are identified in Figure 5-2. These samples were used for establishing control screening values for sediments. There were no explosives or cyanide detected.



5.3.2.2 Additional Investigations. Stereo pair aerial photographs of ANAD were obtained by Jacobs in late spring 1992 after the ESI field work was completed. Aerial photographs from 1944, 1948, 1952, 1957, 1959, and 1961 as well as enlargements of the 1957 and 1961 aerial photos were carefully examined for evidence of activity which might be related to anomalies recorded in the geophysical survey. The photographs show no evidence of an open pit or concrete lagoon in vicinity of either of the areas investigated during the geophysical surveys. The photographs sufficiently cover the time period that the Acid Disposal Pit was reportedly used.

The area investigated in the SWMU #8 survey appears to have been sparsely covered with trees in 1944 photographs. A linear feature running east/west at the approximate location of the anomaly in the geophysical survey can be seen in the stereo pair. Because the feature is covered with grass or low vegetation, it may be either an excavation made before ANAD was constructed, or an excavation made while C-block was being constructed. This linear feature passes under the former roadbed which is visible in all the photos examined.

It is probable that the anomaly of high conductivity in the northeast corner of the #8 area is associated with backfill materials used to raise the Benecia Avenue roadbed. Most of the roads in this section of the ASA are elevated approximately 6 to 10 feet above natural ground level. The eastern line of the geophysical survey is located at the base of the road berm approximately 10 to 12 feet from the pavement.

The SWMU #8 area was revisited by representatives from AEC, ADEM, ANAD, and Jacobs in April 1993. An original photograph of the "Old Acid Disposal Pit" from the Installation Assessment Report (USATHAMA, 1978) was provided by the AEC representative prior to the site visit. The original photograph shows a large red metal box and metal fence posts lying on the ground in the area where SWMU #8 is reportedly located. (The original photograph was not previously available for review during the ESI field investigation of SWMU #8; the quality of the copies of the photograph included in the 1978 report is insufficient to show any of the crucial details.)

The metal box (approximately 4 feet x 4 feet x 6 feet) and fence posts were located during reinspection of the site. They were approximately 150 feet southeast of building 635 near the edge of a wooded area between the bauxite stockpile railroad siding and the railroad tracks east of building 611. The metal box was reported to be a chemical weapons disposal coffin from Operation CHASE (Cut Holes And Sink 'Em). The box was labelled as "Inert" and dated circa 1971. Aerial photographs from 1957 and 1961 show a square-roofed structure located in the area in which the box was found. No evidence of an open pit was observed in the photographs. If it exists, the "Old Acid Disposal Pit" (SWMU #8) may have been covered by a roof to prevent rainfall from filling the pit and washing away the contents.

5.3.2.3 Results of Investigation. Since SWMU #8 was not located, the analytical results obtained from samples collected during the ESI are not reported here. This is because they do not contribute to assessment of any contaminant releases from the actual SWMU. As discussed above, the sediment sample data have been used to support definition of control screening values in the ASA.

5.3.3 SWMU #10 — TNT Washout Facility

Limited environmental media sampling has been conducted during previous investigations of SWMU #10. Historical chemical data show traces of explosive compounds detected in groundwater samples from wells AAD13 and AAD15 during a sampling campaign (circa 1980). Relatively high concentrations of explosive compounds were detected in groundwater samples from AAD14 (ESE, 1981). TNT, octol, RDX, HMX, Comb B, and explosive compound degradation products (dinitrotoluenes, nitrophenols, and cresols) are the common contaminants associated with waste water from TNT washout operations (ESE, 1989).

Expanded Site Inspection of the Ammunition Storage Area

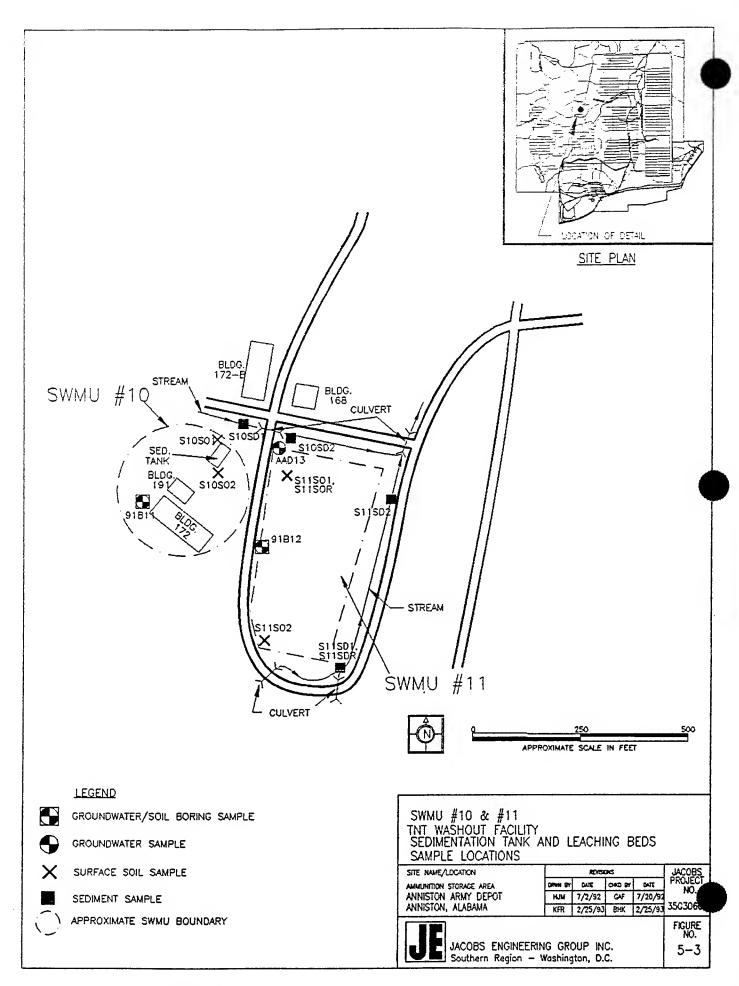
5.3.3.1 Investigative Activities. On the basis of previous investigations, the SWMU #10 area was inspected in November 1991 by Jacobs representatives and personnel from the ANAD Safety Office to assure that drilling and sampling sites were safe from potential explosive hazards. Prior to the start of drilling, additional requirements for chemically field screening subsurface soils for explosive compounds TNT and RDX were given to Jacobs by a representative from the USATHAMA Safety Office. Intrusive sampling within the sedimentation tank and Building 172 was not permitted because of an explosion hazard. There were no restrictions on surface soil sampling.

Difficult drilling conditions were encountered at SWMU #10 soil boring sites. Monitoring well 91B11 was completed after five attempts to drill. Conditions causing auger refusal were encountered at three of the aborted 91B11 drilling sites. A coresampling tool was lost down the borehole on the fourth drilling attempt. In most cases, subsurface soil samples from failed drilling attempts were placed into drums for disposal with cuttings from the boring.

Subsurface soil samples from two soil borings, two surface soil samples, two sediment samples, and groundwater samples from two monitoring wells (91B11 and AAD13) were collected and submitted to the laboratory. Samples were analyzed for selected parameters that included inorganics, nitrate/nitrite, TOC, and explosives. Sample locations for SWMU #10 are identified in Figure 5-3. A summary of detections above background is presented in Table 5-11.

5.3.3.2 Results of Investigation.

Surface Soil Samples — Two surface soil samples were collected at SWMU #10. Identified as S10S01 and S10S02, these samples were analyzed for inorganics, explosives, nitrate/nitrite, and TOC. Sample S10S01 was selected to be one of the control samples. Chemicals detected above control screening values in sample S10S02 are tabulated in Table 5-11. The only inorganic detected above control screening values was calcium. Nitrate/nitrite was detected at 4.14 μ g/g. The explosive 2,4,6-trinitrotoluene was detected at 1.28 μ g/g.



Soil Boring Samples — Two soil borings, identified as 91B11C, and 91B11D were drilled successfully into the area near SWMU #10. Eleven soil samples were collected from these borings. Five soil samples were collected from borehole 91B11C at the following depths: 0, 10, 15, 20 and 30 feet. Six samples were collected from borehole 91B11D at the following depths: 0, 5, 10, 22.5, 25, and 35 feet. The soil samples were analyzed for inorganics, explosives, nitrate/nitrite, and TOC. Analytical results above control screening values are included in Table 5-11.

The soil boring samples were found to contain concentrations of TOC, chromium, potassium, and sodium above control screening values.

Sediment Samples — Two sediment samples, identified as S10SD1 and S10SD2, were collected from SWMU #10 at 6 inches below the surface water/sediment interface and were analyzed for inorganics, explosives, nitrate/nitrite, and TOC. The analytical results for the sediment samples are included in Table 5-11.

Sample S10SD1 contained 3,680 μ g/g of TOC and sample S10SD2 contained 2.07 μ g/g of nitrate/nitrite. Calcium was detected in S10SD2 at a concentration of 663 μ g/g.

Groundwater Samples — Two groundwater samples were collected from monitoring wells located in the area of SWMU #10. One sample was collected from the monitoring well installed in borehole 91B11, and one sample was collected from a pre-existing monitoring well identified as AAD13. The samples were analyzed for inorganics, nitrate/nitrite, VOCs and explosives. The analytical results are presented in Table 5-11.

The majority of the contaminants detected above control screening values in the samples were inorganics. Aluminum, sodium, and vanadium were all detected at concentrations greater than control screening values in sample 91B11, and zinc was detected at a concentration greater than the control screening value in sample AAD13. Both samples contained nitrate/nitrite, with a concentration of 320 μ g/l in sample 91B11 and 271 μ g/l in sample AAD13. Both sample 91B11 and AAD13 contained RDX at concentrations of 4.56 μ g/l and 40.6 μ g/l, respectively. Sample AAD13 also contained 86 μ g/l of HMX.

Table 5-11. SWMU #10 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g or µg/l)
SEDIMENT	S10SD1	0.5	тос	3,680
	S10SD2	0.5	Nitrate/Nitrite	2.07
		·····	Calcium	663
SURFACE SOIL	S10S02	0.5	Nitrate/Nitrite	4.14
			Calcium	1,910
			2,4,6-Trinitrotoluene	1.28
SOIL BORING	91B11C	0	тос	772
		10	Chromium	70.8
			Sodium	152
	91B11D	0	Potassium	824
			тос	6,970
		5	Potassium	819
GROUNDWATER	91811	23	Nitrate/Nitrite	320
			Aluminum	31,600
			Sodium	38,400
			Vanadium	109
			RDX	4.56
	AAD13	25	Zinc	1,070
			Nitrate/Nitrite	271
			НМХ	86
			RDX	40.6

5.3.4 SWMU #11 - TNT Washout Facility Leaching Beds

Contaminants of concern observed from previous sample analyses conducted for SWMU #11 are similar to those found at SWMU #10. Historical chemical data show traces of explosive compounds detected in groundwater samples from wells AAD13 and AAD15 during a sampling campaign (circa 1980). Relatively high concentrations of explosive compounds were detected in groundwater samples from AAD14 (ESE, 1981). Also, there is a 3 to 4 foot thick layer of explosive-contaminated soil beneath the clay cover installed in 1985 (USAEHA, 1986). Surface samples were collected from this layer by ANAD Safety personnel just prior to the installation of the clay layer. Analysis of the samples revealed explosives concentrations of up to 60% (ANAD-Safety, 1985). Based on these findings, samples collected at this SWMU were analyzed for inorganics, nitrate/nitrite, TOC, and explosives. Soil samples from one boring, three surface soil samples, three surface sediment samples, and groundwater samples were collected and analyzed. All samples were collected outside the bed area except for the surface soils, which were collected from the top of the cover.

5.3.4.1 Investigative Activities. On the basis of previous investigations, the SWMU #11 area was inspected in November 1991 by Jacobs representatives and personnel from the ANAD Safety Office to assure that drilling and sampling sites were safe from potential explosive hazards. Prior to the start of drilling, additional requirements for field screening subsurface soils for explosive compounds TNT and RDX were given to Jacobs by a representative from the USATHAMA Safety Office. Intrusive (subsurface) soil sampling within the SWMU boundary was not permitted because of an explosion hazard. There were no restrictions on surface soil sampling down to six inches within the SWMU #11 boundary.

Difficult drilling conditions were encountered at SWMU #11 soil boring sites.

Monitoring well 91B12 was completed after three attempts to drill. In the first attempt, auger refusal was caused by a dolomite boulder at a depth of approximately

10 feet. On the second attempt, the explosive compound tetryl was detected in surface soils during field screening, and the drilling site was rejected. On the third attempt, the well was completed despite an organic vapor detection of 28 ppm at 50 to 55 feet. See Section 6.1 for additional discussion of this detection.

Collecting groundwater samples from five existing monitoring wells at SWMU #11 was called for in the ESI Work Plan. Only one of the existing monitoring wells (AAD 13) was actually sampled. Two wells (W2-19 and W2-20) were not located by the sampling team. Wells AAD14 and AAD15 were uncapped, damaged, and considered unreliable for sampling due to their condition.

Three surface soil and three sediment samples were collected from the leaching bed area. Sample locations for SWMU #11 are identified in Figure 5-3. A data summary of chemicals detected above background is presented in Table 5-12.

5.3.4.2 Results of Investigation.

Soil Boring Samples — A soil boring identified as 91B12 was drilled near SWMU #11 (Figure 5-3). Six soil samples were collected from the boring at depths of 5, 10, 15, 20, 25 and 32 feet. The samples were analyzed for inorganics, TOC, explosives, and nitrate/nitrite. The analytical results are presented in Table 5-12.

Cyanide and explosives were not detected in any of the samples. Nitrate/nitrite was detected at a concentration of 2.58 µg/g.

Surface Soil Samples — Two surface soil samples, identified as S11S01 and S11S02, were collected from SWMU #11 at 6 inches below ground surface. The samples were analyzed for inorganics, explosives, nitrate/nitrite, and TOC. The analytical results for detections above control screening values are presented in Table 5-12.

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Cyanide, explosives, and nitrate/nitrite were not detected in any of the samples. Copper was the only inorganic detected in both samples at concentrations greater than the control screening value. In addition, potassium was detected above its control screening value in sample S11S01.

Sediment Samples — Two sediment samples, identified as S11SD1 and S11SD2 were collected at 6 inches below the surface water/sediment interface. These samples were analyzed for inorganics, explosives, nitrate/nitrite, and TOC. The analytical results of the sediment samples are presented in Table 5-12.

Cyanide, explosives, and nitrate/nitrite were not detected in any of the samples. TOC was detected in sample S11SD2 at a concentration of 9,230 μ g/g. Manganese was detected in S211D1 at a concentration of 1,400 μ g/g.

Groundwater Samples — One groundwater sample was collected from the monitoring well installed in borehole 91B12 (upgradient). The sample was analyzed for inorganics, nitrate/nitrite, explosives, and VOCs. The analytical results are presented in Table 5-12.

The following inorganics were detected in the sample at concentrations greater than control screening values: aluminum, cobalt, chromium, sodium, and vanadium. The VOC acetone was detected in the sample at $21 \,\mu\text{g/l}$.

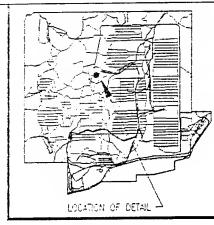
Table 5-12. SWMU #11 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g or µg/l)
SEDIMENT	S11SD1	0.5	Manganese	1,400
	S11SD2	0.5	TOC	9,230
SURFACE SOIL	S1 1 S01	0.5	Copper	30.3
			Potassium	1,110
	S11S02	0.5	Copper	20.8
SOIL BORING	91B12	25	Nitrate/Nitrite	2.58
GROUNDWATER	91B12	45	Aluminum	26,400
			Cobalt	50.7
			Chromium	113
			Sodium	9,910
			Vanadium	94
			Acetone	21

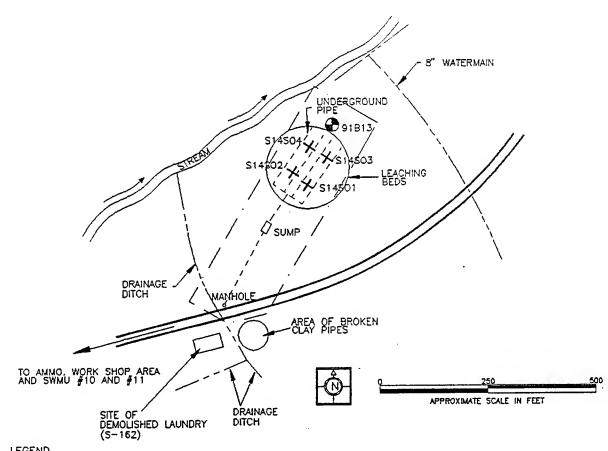
5.3.5 SWMU #14 — Laundry Waste Leaching Facility

No historical environmental sampling data exists for the Laundry Waste Leaching Facility. Possible contaminants of concern at SWMU #14 include soap, Iye, TNT, DNT, and cresols. A suite of analyses was selected for samples collected from SWMU #14 that include inorganics, TOC, and explosives.

5.3.5.1 Investigative Activities. The SWMU #14 area was inspected in December 1991 by a Jacobs geologist and members of the UXO team from UXB International. Iron piping was located which led from the site of the demolished laundry building to a manhole across the road (see Figure 5-4). From the manhole, the pipe was traced to a concrete sump. The pipe was then traced to a junction box at the head of a raised gravel area approximately 30 feet wide and 75 feet long. Lateral pipes were located with a magnetometer by the UXO specialists and marked at each pipe joint. An area of broken terra cotta piping was observed south of the road. This area was reported as a possible leaching bed area.



SITE PLAN



LEGEND



GROUNDWATER SAMPLE



SURFACE SOIL SAMPLE



APPROXIMATE DIRECTION OF FLOW



APPROXIMATE SWMU BOUNDARY

NOTE: WELL AND SOIL SAMPLES IN WOODED AREA.

SWMU #14 LAUNDRY WASTE LEACHING FACILITY SAMPLE LOCATIONS

SITE NAME/LOCATION			JACOBS		
AMMUNITION STORAGE AREA	DRIMI BY	DATE	CHO BY	DATE	PROJEC NO.
ANNISTON ARMY DEPOT	НЛМ	7/2/92	CAF	7/20/92	
ANNISTON, ALABAMA	KFR	2/25/93	8HK	2/17/93	35G3060



JACOBS ENGINEERING GROUP INC. Southern Region — Washington, D.C.

FIGURE NO. 5-4

Drilling inside the boundary of the gravel bed was prohibited due to safety concerns by the ANAD Safety Officer. Additional requirements for chemically field screening subsurface soils for explosive compounds TNT and RDX during drilling operations were given to Jacobs by a representative from the USATHAMA Safety Office. A monitoring well location was selected at the downgradient end of the gravel bed approximately 15 feet from the end of the lateral pipes.

Four surface soil samples and one groundwater sample from one new monitoring well were collected and analyzed. The sample locations for SWMU #14 are identified in Figure 5-4 and the data summary of analyte detections above control screening values are presented in Table 5-13.

5.3.5.2 Results of Investigation.

Surface Soil Samples — Four surface soil samples, identified as S14S01, S14S02, S14S03, and S14S04, were collected from SWMU #14. The samples were analyzed for inorganics, explosives, and TOC. The analytical results are presented in Table 5-13.

Cyanide was not detected in any of the samples. TOC was not detected above the control screening value in any of the samples. Inorganics detected above control screening values in sample S14S01 were limited to copper; in sample S14S02, iron; and in sample S14S04, copper, molybdenum, and zinc. No inorganics were detected above control screening values in sample S14S03. The explosive compound HMX was detected in sample S14S01 at 1.01 μ g/g.

Groundwater Samples — A groundwater sample was collected from monitoring well 91B13 (upgradient). The sample was analyzed for inorganics, explosives, and TOC. The analytical results are presented in Table 5-13. Cyanide and explosives were not detected in the samples. TOC was detected in the sample.

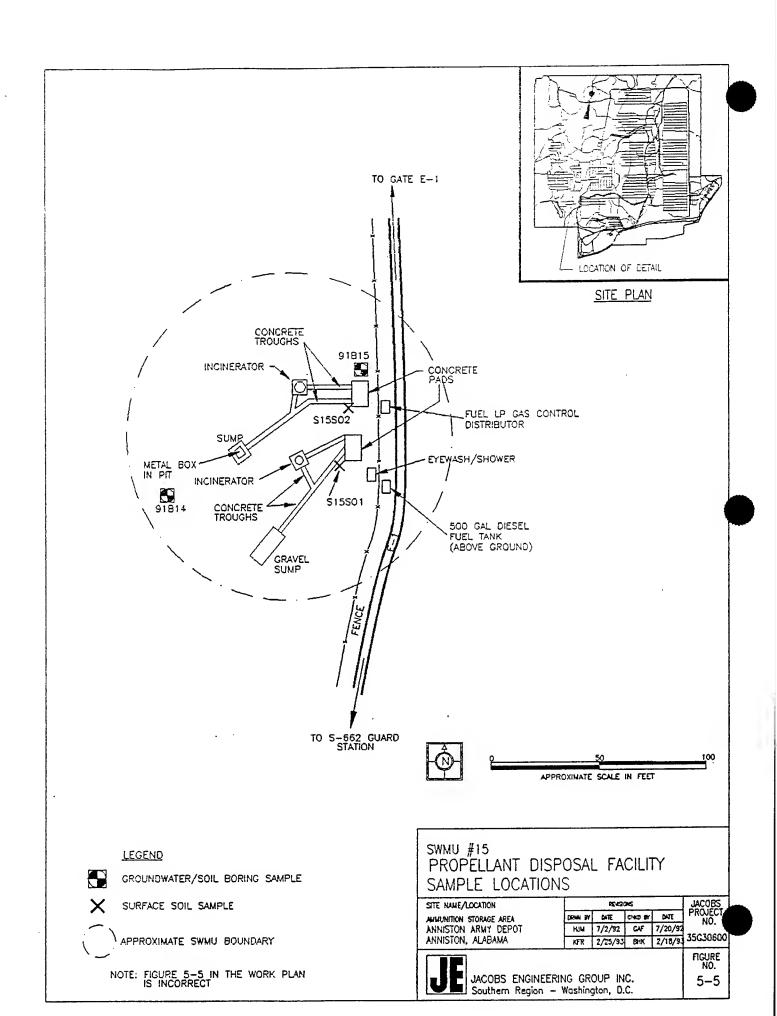
Table 5-13. SWMU #14 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g or µg/l)
SURFACE SOIL	S14S01	0.5	Copper	20.4
			НМХ	1.01
	S14S02	0.5	Iron	69,000
	S14S04	0.5	Copper	30
			Molybdenum	8.46
			Zinc	92.2
GROUNDWATER	91B13	15	TOC	3,150

5.3.6 SWMU #15 — Propellant Disposal Facility

No historical environmental sampling data exists for the Propellant Disposal Facility. Possible contaminants of concern at SWMU #15 include unsymmetrical dimethylhydrazine (UDMH), inhibited red fuming nitric acid (IRFNA), diesel fuel, and inorganics. Surface soil samples were analyzed for TPHC; soil boring samples were analyzed for TPHC and nitrate/nitrite; and groundwater samples were analyzed for nitrate/nitrite, VOCs, and SVOCs.

5.3.6.1 <u>Investigative Activities</u>. Subsurface soil samples from two soil borings, two surface soil samples, and groundwater samples from the two new monitoring wells were collected and analyzed. The sample locations for SWMU #15 are identified in Figure 5-5. A summary of chemicals detected above control screening values are presented in Table 5-14.



5.3.6.2 Results of Investigation.

Soil Boring Samples — Two soil borings, identified as 91B14 and 91B15, were drilled at SWMU #15. Three soil samples were collected from 91B14 at approximately 5 foot intervals ranging from 5 to 15 feet. Two soil samples were collected from 91B15 at 5 and 9 feet. The samples were analyzed for nitrate/nitrite and TPHC. The analytical results are presented in Table 5-14. Nitrate/nitrite were not detected in any of the samples. TPHC was detected in sample 91B14 and 91B15 at concentrations of 20.9 μ g/g and 12.2 μ g/g, respectively.

Surface Soil Samples — Two surface soil samples, identified as S15S01 and S15S02, were collected from SWMU #15. The samples were analyzed for TPHC. The analytical results are presented in Table 5-14. TPHC was detected in sample S15S01 and S15S02 at concentrations of 28.3 μg/g and 108 μg/g, respectively.

Groundwater Samples — Two groundwater samples were collected from monitoring wells 91B14 (downgradient) and 91B15 (upgradient). The samples were analyzed for VOCs, SVOCs, TPHC, and nitrate/nitrite. The analytical results are presented in Table 5-14. Sample 91B14 contained 1,050 μ g/l of nitrate/nitrite, sample 91B15 contained 17 μ g/l of acetone.

Table 5-14. SWMU #15 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g or µg/l)
SURFACE SOIL	S15S01	0.5	TPHC	28.3
	S15S02	0.5	TPHC	108
SOIL BORING	91B14	5	ТРНС	20.9
	91B15	9	TPHC	12.2
GROUNDWATER	91B14	8	Nitrate/Nitrite	1,050
	91B15	11	Acetone	17

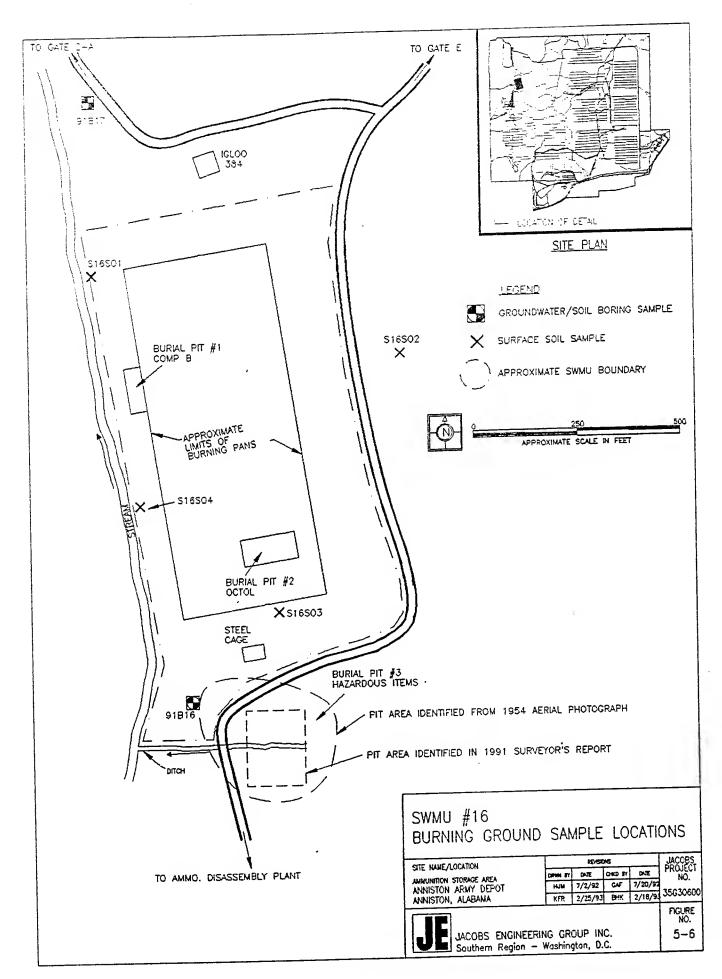
5.3.7 SWMU #16 — Burning Ground

Possible contaminants of concern at SWMU #16 include TNT, octol, explosive D, tetryl, RDX, smokeless powder, Comp B, amatol, various propellants, ignitors, and hydrocarbons. Samples were analyzed for parameters that included inorganics, TPHC, and explosives.

5.3.7.1 Investigative Activities. Geophysical surveys were conducted at proposed SWMU #16 soil boring and monitoring well sites in December 1991; EM methods were used for this purpose. Results of the geophysical surveys were examined for evidence of burial pits or other ground disturbances indicative of buried materials. Typical conductivity values were encountered during the survey with no unusual anomalies identified. Appendix C describes the result of the geophysical survey.

The location of one well site (91B16) was changed when the original site was inaccessible to the drilling rig. The rig was stuck in soft ground while the drillers attempted to set up on the site. At the direction of USATHAMA, the well site was relocated closer to the Burning Ground in an area potentially affected by OB activities (as evidenced by the black ashy material intersected just below the surface). Aerial photographs show that the site of 91B16 is located near the perimeter of a former shallow excavation. The pit was reportedly used for burning of white phosphorus (WP) or other explosive materials (personal communication, ANAD Safety Office). A 1991 surveyor's report identified a smaller area for the former pit. Both pit areas, identified as Burial Pit #3, are shown on Figure 5-6.

Intrusive (subsurface) soil sampling activities were restricted by the ANAD Safety Office to areas outside the Burning Ground. UXO surface sweeps were conducted at each soil boring site to assure the safety of drilling crews. Borehole surveys for UXO were conducted during borehole drilling operations in this SWMU. UXO hazards were not encountered during soil boring operations.



Subsurface soil samples from two soil borings, four surface soil samples, and groundwater samples from two monitoring wells were collected and analyzed. The sample locations for SWMU #16 are identified in Figure 5-6. A summary of chemicals detected above control screening values are presented in Table 5-15.

5.3.7.2 Results of Investigation.

Soil Boring Samples — Two soil borings, identified as 91B16 and 91B17, were drilled at SWMU #16. Black ashy material was intersected from 0.25 to 0.5 feet below the surface in boring 91B16. Five soil samples were collected from boring 91B16, at depths of 0.5 (the black ashy material), 10, 15, 18, and 24 feet below ground surface. Three soil samples were collected from boring 91B17, at depths of 5, 10, and 15 feet below ground surface. Monitoring wells were constructed in these boreholes. The samples collected from both borings were analyzed for inorganics, explosives, and TPHC. The three samples collected from boring 91B17 were selected to be control samples. The analytical results from the five soil boring samples collected at SWMU #16 are tabulated in Table 5-15.

TPHC was detected at 24 feet at 15.8 μg/g. Inorganics were detected above control screening values at all five depths including aluminum, barium, chromium, cobalt, copper, iron, lead, manganese, nickel, potassium, sodium, and zinc.

Surface Soil Samples — Four surface soil samples, identified as S16S01, S16S02, S16S03, and S16S04, were collected and analyzed for inorganics, explosives, and TPHC. The analytical results are tabulated in Table 5-15. The inorganics detected above control screening values were barium, cadmium, cobalt, copper, lead, manganese, nickel and zinc. TPHC was detected in surface soil samples S16S01, S16S02, S16S04 at concentrations of 249, 589, and 658 μg/g, respectively.

Groundwater Samples — Two groundwater samples, identified as 91B16 and 91B17, were collected from monitoring wells that were installed in boreholes 91B16 and 91B17. The samples were analyzed for VOCs, SVOCs, inorganics, explosives, and nitrate/nitrite. The analytical results are presented in Table 5-15.

Cyanide, explosives and TPHC were not detected in either of the samples. Nitrate/nitrite was detected in samples 91B16 and 91B17 at 349 μ g/l and 580 μ g/l, respectively. The only inorganics that were detected at concentrations greater than the control screening values were chromium in 91B16 and magnesium and sodium in 91B17.

Table 5-15. SWMU #16 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT COMPOUND	CONCENTRATION (µg/g or µg/l)
SURFACE SOIL	\$16801	0.5	TPHC	249
			Barium	925
			Cadmium	2.34
			Copper 82.5	82.5
		Lead	Lead	203
			Zinc	648
	\$16\$02	0.5	TPHC	589
			Barium	622
			Cobalt	90.8
			Copper	84.1
			Lead	43.7
			Manganese	7,100
		Nickel	84.4	
			Zinc	161
	S16S03	0.5	Zinc	141
	S16S04	0.5	ТРНС	658
			Copper	20.9
			Lead	64.1
			Zinc	73.4

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT COMPOUND	CONCENTRATION (µg/g or µg/l)
SOIL BORING	91B16	0.5	Barium	148
			Cobalt	43.3
			Copper	45.1
			Iron	53,000
			Lead	136
			Manganese	1,600
			Sodium	278
			Zinc	180
SOIL BORING	91B 1 6	10	Barium	191
			Cobalt	66.8
			Copper	51.4
			Manganese	3,600
			Sodium	182
			Nickel	61
			Zinc	124
		15	Barium	88.2
			Cobalt	33.2
		•	Copper	29.5
			Manganese	1,500
			Nickel	40.7
		18	Aluminum	16,000
			Potassium	901
			Sodium	159
		24	TPHC	15.8
			Barium	91.6
			Manganese	1,400
			Nickel	36.9

Table 5-15. SWMU #16 — Data Summary (Continued)

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT COMPOUND	CONCENTRATION (µg/g or µg/l)
GROUNDWATER	91B16	25	Chromium	145
			Nitrate/Nitrite	349
	91B17	14	Magnesium	12,000
			Sodium	7,040
			Nitrate/Nitrite	580

5.3.8 SWMU #17 — Demolition Pit

A suite of analytical parameters was selected for SWMU #17 that included inorganics, nitrate/nitrite, VOCs, SVOCs, and explosives based upon the diversity of materials in the demolition pit area.

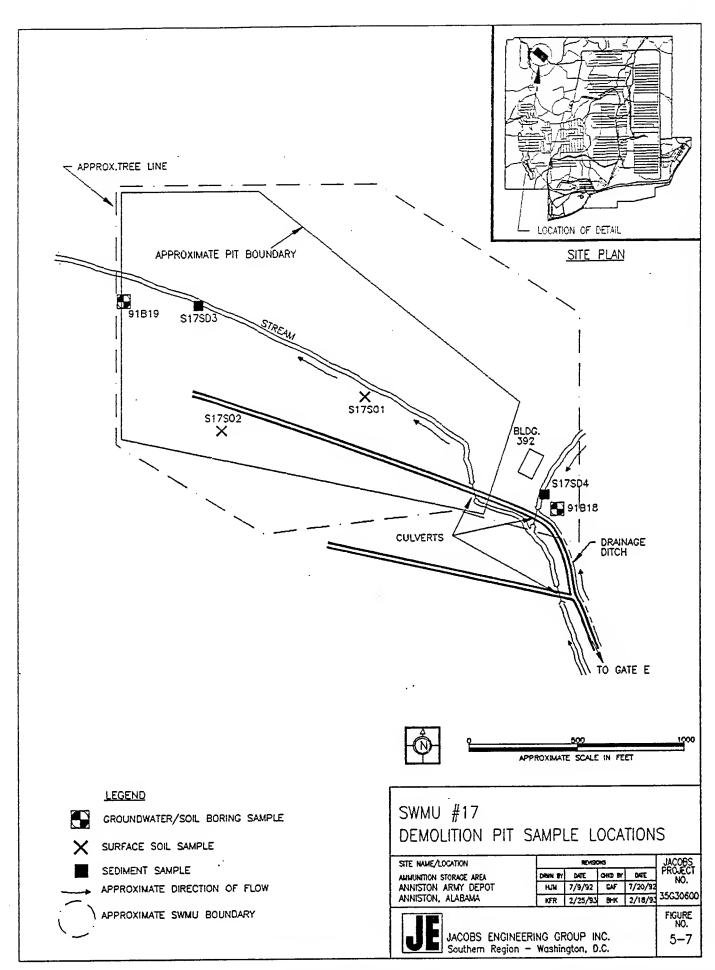
5.3.8.1 Investigative Activities. Geophysical surveys were conducted at proposed SWMU #17 soil boring and monitoring well sites in December 1991; EM methods were used for this purpose. Results of the geophysical surveys were examined for evidence of burial pits or other ground disturbances indicative of buried materials. Typical conductivity values were encountered during the survey with no unusual anomalies identified. Appendix C describes the results of the geophysical survey performed at this SWMU.

Intrusive (subsurface) soil sampling activities were restricted by the ANAD Safety Office to areas outside the Demolition Pit. Surface sweeps for UXO were conducted at each soil boring site to assure the safety of drilling crews. Borehole surveys for UXO were conducted during borehole drilling operations in this SWMU. UXO hazards were not encountered during soil boring operations.

Subsurface soil samples from two soil borings, two surface soil samples, two surface sediment samples, and groundwater samples from two new monitoring wells were collected and analyzed. The sample locations for SWMU #17 are identified in Figure 5-7 and the data summary of analyte detections above the control screening values are presented in Table 5-16.

5.3.8.2 Results of Investigation.

Soil Boring Samples — Two soil borings, identified as 91B18 and 91B19, were drilled at SWMU #17. Four soil samples were collected: one at a depth of 5 feet below ground surface from boring 91B18 and three at depths of 5, 10, and 12 feet



below ground surface from boring 91B19. The samples were analyzed for inorganics, explosives, and TPHC. As described in Section 5.1, soil samples from boring 91B18 were selected as control screening samples. The analytical results for the three samples from 91B19 are presented in Table 5-16.

Cyanide and explosives were not detected in soil samples collected from boring 91B19. The following inorganics were detected in the 5 foot deep sample collected from boring 91B19 at concentrations greater than control screening values: barium, cadmium, copper, lead, mercury, potassium, sodium, and zinc. Mercury and TPHC were detected in the 10 foot deep sample, and cobalt and manganese were detected in the 12 foot deep sample collected from boring 91B19.

Surface Soil Samples — Two surface soil samples, identified as S17S01 and S17S02, were collected from SWMU #17. The samples were analyzed for inorganics, explosives, and TPHC. The analytical results are presented in Table 5-16. Cyanide was not detected in either of the samples. The following inorganics were detected at concentrations greater than control screening values: beryllium, cadmium, copper, iron, lead, nickel, silver, vanadium, and zinc. TPHC was detected in sample S17S01 and S17S02 at concentrations of 55.6 μ g/g and 22.4 μ g/g, respectively. Two explosives were detected in sample S17S02: nitroglycerin at 17.6 μ g/g and 2,4-dinitrotoluene at 0.448 μ g/g.

Sediment Samples — Two sediment samples, identified as S17SD3 and S17SD4, were collected at depths of 6 inches below the surface water/sediment interface. The samples were analyzed for inorganics, explosives, and TPHC. The analytical results are presented in Table 5-16. Cyanide and explosives were not detected in either sample. TPHC was detected in samples S17SD3 and S17SD4 at concentrations of 36.3 μ g/g and 110 μ g/g, respectively. Two inorganics, cadmium and copper, were detected in sample S17SD3 at concentrations greater than control screening values.

Expanded Site Inspection of the Ammunition Storage Area

Groundwater Samples — Two groundwater samples were collected from the monitoring wells installed in boreholes 91B18 and 91B19. The samples were analyzed for inorganics, explosives, nitrate/nitrite and VOCs. As discussed in Section 5.1, groundwater samples from well 91B18 were selected as control samples. The analytical results are presented in Table 5-16. Cyanide and nitrate/nitrite were not detected. The following inorganics were detected at concentrations greater than control screening values: beryllium, cadmium, cobalt, lead, manganese, nickel, thallium, and zinc. The explosive 4-nitrotoluene and the VOC acetone were also detected.

Table 5-16. SWMU #17 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g or µg/l)
SEDIMENT	S17SD3	0.5	TPHC	36.3
			Cadmium	0.899
			Copper	97.6
	S17SD4	0.5	TPHC	110
SURFACE SOIL	S17S01	0.5	TPHC	55.6
			Beryllium	2.42
			Copper	30
			Iron	50,000
			Lead	41
			Nickel	24.6
			Vanadium	72.6
			Zinc	212
	S17S02	0.5	TPHC	22.4
			Cadmium	7.36
			Copper	438
			Silver	2.92
			Zinc	220
			2,4-Dinitrotoluene	0.448
			Nitroglycerine	17.6
SOIL BORING	91B19	5	Barium	547
			Cadmium	6.51
			Copper	146
			Lead	61.8
			Mercury	0.521
			Potassium	740
			Sodium	141
			Zinc	336

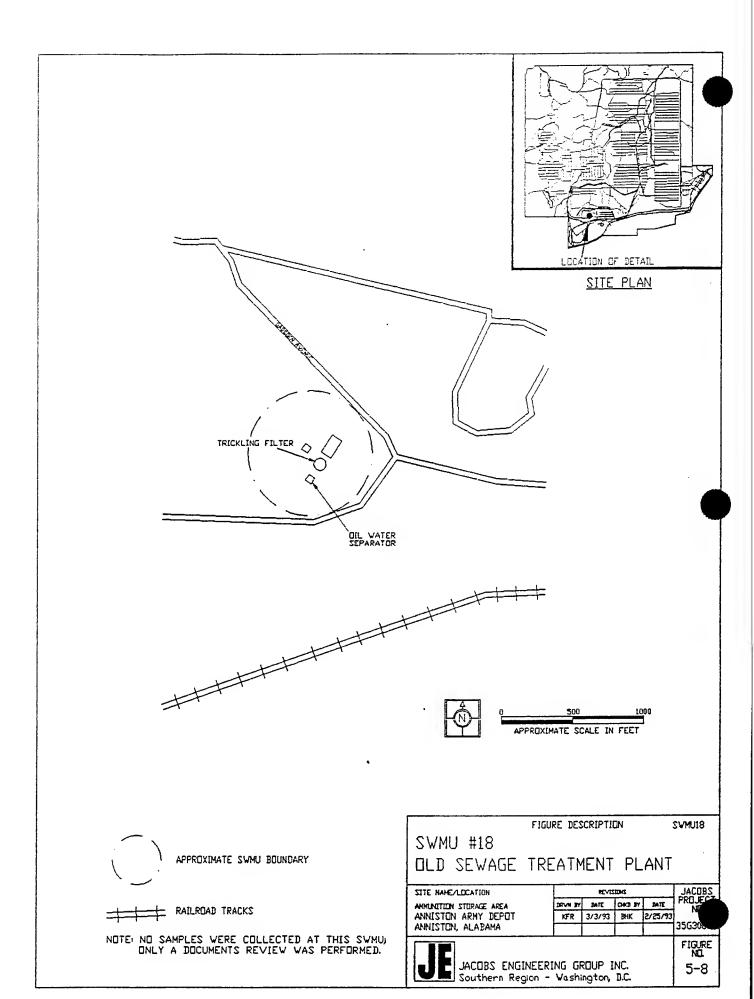
Table 5-16. SWMU #17 — Data Summary (Continued)

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g or µg/l)
SOIL BORING	91B19	10	TPHC	25.8
			Mercury	0.44
		12	Cobalt	43.6
			Manganese	2,200
GROUNDWATER	91B19	17	Beryllium	3.22
			Cadmium	18.4
			Cobalt	131
			Lead	100
			Manganese	18,000
			Nickel	180
			Thallium	2.64
			Zinc	1,240
			Acetone	13
			4-Nitrotoluene	2.25

5.3.9 SWMU #18 — Old Sewage Treatment Plant (STP)

SWMU #18 is no longer active as a sewage treatment plant, but is now used as a fire training area. A recent records search included a review of all available records pertinent to this SWMU. These records were stored in filing cabinets located in the environmental engineering offices at ANAD. No records are available that would indicate whether groundwater or soils were impacted by past sewage treatment operations. A recent visit to the site found evidence that fire training activities had recently been conducted: vegetation was charred, and the odor of petroleum was present at ground surface.

No field sampling was conducted at SWMU #18. A map of this SWMU is presented as Figure 5-8.



5.3.10 SWMU #26 & #27-North and South TNT Burial Pits

SWMUs #26 and #27 were reported as burn sites for wastes which may have included TNT-contaminated wastes (ESE, 1989). Samples collected at these SWMUs were analyzed for selected parameters that included inorganics and explosives.

5.3.10.1 Investigative Activities. SWMUs #26 and #27 were inspected in December 1991 by a Jacobs geologist and UXO specialists from UXB International prior to starting sampling activities. The inspection concluded there was no need for UXO surface sweep of either area. UXO clearance of sampling sites was not performed.

Geophysical surveys were performed by technicians from Technos, Inc. in December 1991. EM surveys were used to identify the boundaries of the pits for selecting intrusive environmental sampling sites. A determination of the lateral extent of the pits in these SWMUs was accomplished using these techniques. GPR was used at SWMU #26 to verify results of the EM survey. Appendix C describes results of the geophysical surveys performed.

Both sites were inspected in January 1991 by a representative of the USATHAMA Safety Office to determine whether chemical field screening of soils for explosives was necessary. Due to the nature of the wastes and reports that the wastes were burned prior to burial, it was determined that no chemical field screening was necessary. Intrusive (subsurface) soil sampling activities were restricted by the ANAD Safety Office to areas outside the TNT Burial Pit boundaries; surface soil sampling down to six inches was unrestricted.

Subsurface soil samples from four soil borings, four surface soil samples, one sediment sample, and groundwater samples from four monitoring wells were collected and analyzed. Sample locations for SWMUs #26 and #27 are identified in Figure 5-9 and the data summary of detections above control screening values are presented in Table 5-17 (SWMU #26) and Table 5-18 (SWMU #27).

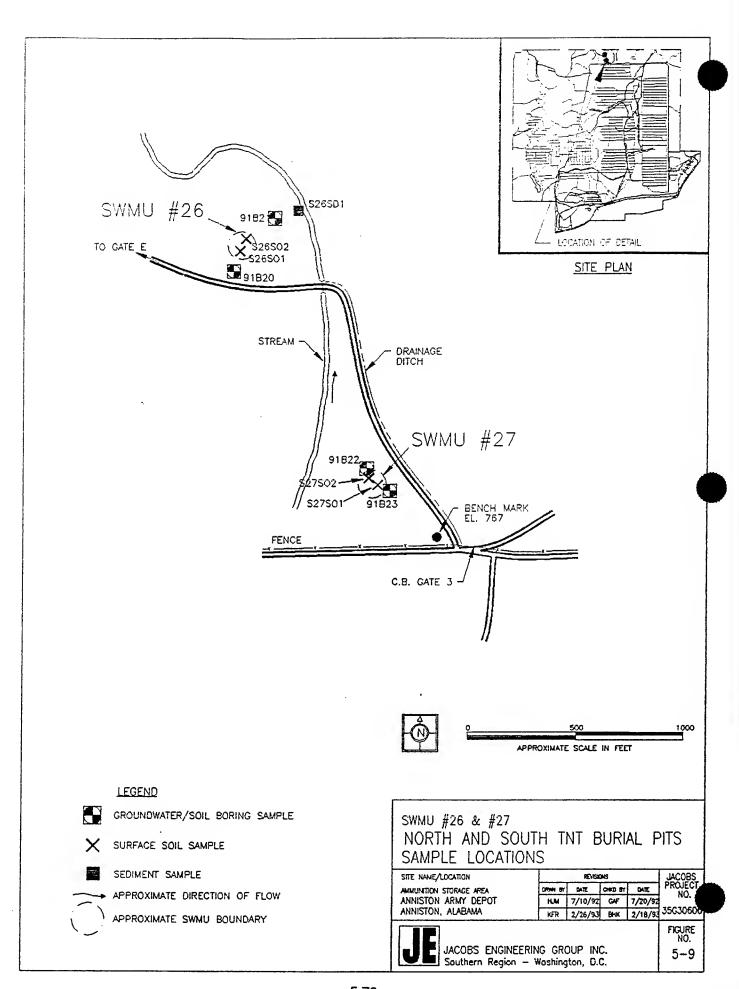


Table 5-17. SWMU #26 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g)
SURFACE SOIL	S26S01	0.5	Iron	40,000
			Manganese	1,700
			Lead	43.6
SEDIMENT	S26SD1	0.5	Calcium	795
			Lead	45.1
			Magnesium	1,190
SOIL BORING	91B20	20	Aluminum	18,000
			Cobalt	37.7
			Mercury	0.228
			Potassium	789
			Sodium	144
			Methylene chloride	0.03
	91B21	10	Aluminum	15,000
		33	Barium	52.3
			Cobalt	19.6
			Magnesium	1,020
			Manganese	460
			Sodium	130
			Acetone	0.045
			Aluminum	27,000
			Beryllium	2.89
			Calcium	1,730
			Copper	35
			Magnesium	1,990
		!	Manganese	1,500
			Potassium	928

Table 5-17. SWMU #26 — Data Summary (Continued)

	MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/l)
	GROUNDWATER	91B20	13	Chromium	110
				Silver	105
				Nitrate/Nitrite	375
		91B21	10	Calcium	63,000
				Magnesium	33,000
				Zinc	1,090
				Nitrate/Nitrite	317

Table 5-18. SWMU #27 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g or µg/l)
SURFACE SOIL	S27S01	0.5	Lead	47.4
SOIL BORING	91B22	17	Acetone	0.064
			Sodium	85.4
	91B23	37.5	Beryllium	3.5
			Calcium	1,450
			Cobalt	37.3
			Copper	44.4
			Iron	47,000
			Lead	51.6
			Magnesium	1,560
			Mercury	0.215
			Nickel	41.3
	100	100	Potassium	734
			Vanadium	76.5
			Trichloroethylene	0.011
GROUNDWATER	91B22	8	Magnesium	8,020
			Nitrate/Nitrite	68.3
			Bis(2-ethylhexyl) phthalate	41
	91B23	6	Nitrate/Nitrite	200
			Calcium	50,000
			Magnesium	26,700

5.3.10.2 Results of Investigation.

Soil Boring Samples — Two soil borings, identified as 91B20 and 91B21, were drilled at SWMU #26, and two soil borings, identified as 91B22 and 91B23, were drilled at SWMU #27. Soil samples were collected at 20 feet below ground surface from boring 91B20; 10 feet and 33 feet below ground surface from boring 91B21; 17 feet below ground surface from boring 91B22; and 37.5 and 100 feet below ground surface from boring 91B23. The samples were analyzed for inorganics, explosives, and VOCs. The analytical results are presented in Tables 5-17 and 5-18.

Cyanide and explosives were not detected in any of the soil boring samples. Several inorganics were detected at concentrations greater than the control screening values in samples collected from boreholes 91B20, 91B21, 91B22, and 91B23 including aluminum, barium, beryllium, calcium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, sodium, and vanadium. Methylene chloride was detected in a sample collected from borehole 91B20 at a concentration of 0.03 μ g/g. Acetone was detected in the 10 foot deep sample collected from borehole 91B21 and the 17 foot deep sample collected from borehole 91B22 at concentrations of 0.045 μ g/g and 0.064 μ g/g. Trichloroethylene was detected in the 37.5 feet deep sample collected from borehole 91B23 at 0.011 μ g/g.

Surface Soil Samples — Four surface soil samples, identified as S26S01, S26S02, S27S01, and S27S02, were collected from SWMU #26 and SWMU #27. The samples were analyzed for inorganics and explosives. Samples S26S02 and S27S02 were selected to be control samples. The analytical results above control screening values for the remaining samples are presented in Tables 5-17 and Table 5-18. Explosives were not detected in any of the samples. The inorganics, iron, manganese, and lead were detected at concentrations greater than control screening values.

Sediment Samples — One sediment sample, identified as S26SD1, was collected at SWMU #26 from a depth of 6 inches below the surface water/sediment interface. This sample was analyzed for inorganics and explosives. The analytical results for this sample are presented in Table 5-17. Cyanide and explosives were not detected in the sediment sample. The following inorganics were detected in the sample at concentrations greater than the control screening values: calcium, magnesium and lead.

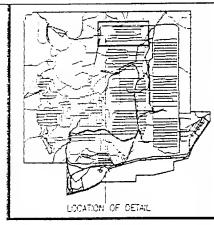
Groundwater Samples — Four groundwater samples were collected from the monitoring wells that were constructed in boreholes 91B20 (upgradient), 91B21 (downgradient), 91B22 (downgradient), and 91B23 (upgradient). The samples were analyzed for inorganics, explosives, nitrate/nitrate, and VOCs. The analytical results are presented in Table 5-17 and 5-18. Cyanide and explosives were not detected in any of the samples. Inorganics were detected in all of the samples at concentrations greater than control screening values including calcium, chromium, magnesium, silver, and zinc. Nitrate/nitrite was detected in sample 91B20, 91B21, 91B22, and 91B23 at concentrations of 375 μ g/l, 317 μ g/l, 68.3 μ g/l, and 200 μ g/l, respectively. The SVOC bis(2-ethylhexyl) phthalate was detected in sample 91B22 at a concentration of 41 μ g/l.

This concentration of bis(2-ethylhexyl) phthalate was compared to the QA/QC blanks to determine whether or not this represented laboratory contamination or a positive detection. Because no bis(2-ethylhexyl) phthalate was detected in the QA/QC blank, the sample result is considered a positive detection.

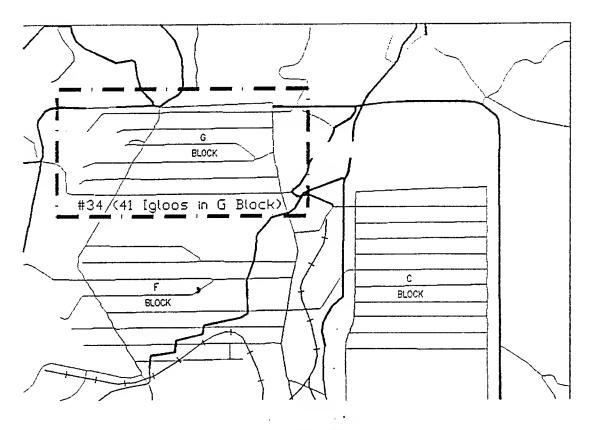
5.3.11 SWMU #34 — Chemical Storage Igloos

SWMU #34 includes 41 chemical storage igloos. No documentation that indicates that groundwater or soils are impacted by release of contaminants from the contents of these igloos was found during the records search. ANAD-RMD personnel informed Jacobs that air monitoring of the igloo interiors is performed on a weekly basis. Any leaks detected within the igloos are immediately investigated and the source of the leak remediated (i.e., leaking M55 rockets are overpacked).

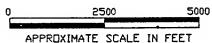
No field investigation was conducted at SWMU #34. A map of this SWMU is presented as Figure 5-10.



SITE PLAN









APPROXIMATE SWMU BOUNDARY

NOTE: NO SAMPLES WERE COLLECTED AT THIS SWMU; ONLY A DOCUMENTS REVIEW WAS PERFORMED.

SWMU #34 CHEMICAL STORAGE IGLOOS AREA

SITE NAME/LOCATION
AUMUNITION STORAGE AREA
ANNISTON ARMY DEPOT
ANNISTON, ALABAMA

	JACOBS			
DRHIN BY	BY DATE CHICO BY DATE		PROJECT NO.	
KFR	2/26/93	BHK	2/18/93	
				35G30600

JE

JACOBS ENGINEERING GROUP INC. Southern Region - Washington, D.C. FIGURE NO. 5-10

5.3.12 SWMU #35 — Deactivation Furnace (Building 393)

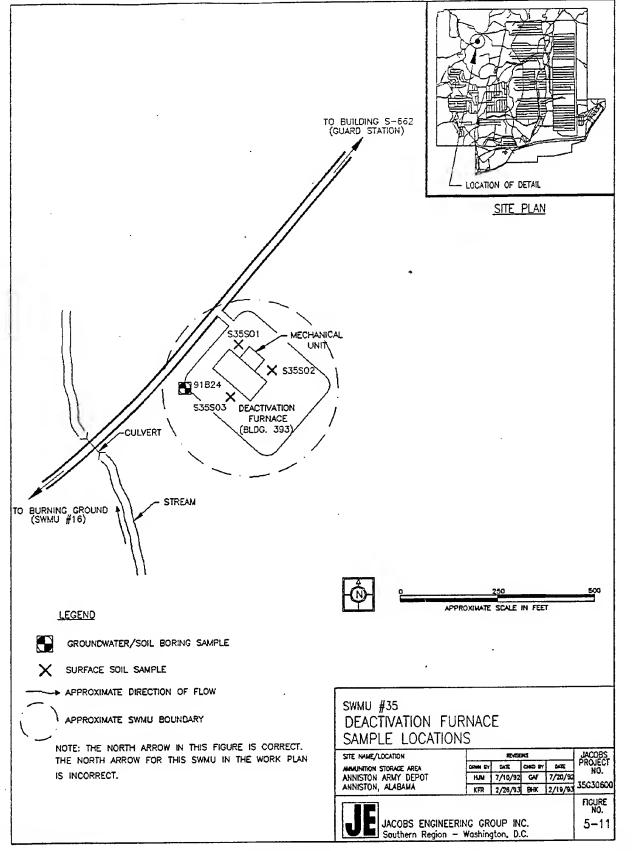
Potential contaminants of concern at SWMU #35 include lead, cadmium, copper, zinc, and TPHC. Samples collected at this SWMU were analyzed for selected parameters that include inorganics and TPHC.

5.3.12.1 Investigative Activities. Proposed sampling sites at SWMU #35 were inspected in November 1991 by representatives from Jacobs and the ANAD Safety Office prior to initiating the intrusive sampling program. Proposed surface soil sampling sites were cleared with ANAD Safety Office representative. At the request of the ANAD Safety Office, the site of a proposed soil boring/monitoring well installation was moved from its proposed location in the parking area near the former UST site to a location at the edge of the gravel parking lot away from the building (the proposed location would have created a traffic hazard).

Subsurface soil samples from one soil boring, three surface soil samples, and a groundwater sample from one monitoring well were collected and submitted to the laboratory. The sample locations for SWMU #35 are identified in Figure 5-11. A summary of contaminants detected above control screening values is presented in Table 5-19.

5.3.12.2 Results of Investigation.

Soil Boring Samples — One soil boring, identified as 91B24, was drilled at SWMU #35. Four soil samples were collected from the boring at depths of 10, 20, 30, and 40 feet below ground surface. The samples were analyzed for TPHC. The analytical results are presented in Table 5-19. TPHC was detected in the 20 and 40 feet deep samples collected from borehole 91B24 at concentrations of 62.8 μ g/g and 20.4 μ g/g, respectively.



Surface Soil Samples — Three surface soil samples, identified as S35S01, S35S02, and S35S03, were collected at SWMU #35. The samples were analyzed for inorganics, explosives, and TPHC. The analytical results are presented in Table 5-19. Inorganics were detected in all three surface soil samples at concentrations greater than control screening values including barium, cadmium, calcium, cobalt, copper, lead, magnesium, manganese, nickel, silver, and zinc. TPHC was detected in S35S01, S35S02, and S35S03 at 133 μ g/g, 61.4 μ g/g, and 73.5 μ g/g, respectively.

Groundwater Samples — One groundwater sample was collected from the monitoring well constructed in borehole 91B24 (downgradient). The sample was analyzed for inorganics, explosives, TPHC, and VOCs. The analytical results are presented in Table 5-19. Cyanide, explosives, VOCs and TPHC were not detected in the sample. The following inorganics were detected in the sample at concentrations greater than the control screening values: sodium and lead.

Table 5-19. SWMU #35 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g or µg/l)
SURFACE SOIL	S35S01	0.5	TPHC	133
			Barium	954
			Cadmium	20.4
			Calcium	100,000
			Copper	422
			Lead	9,100
			Magnesium	59,000
			Silver	2.65
			Zinc	607
	S35 S 02	0.5	TPHC	61.4
			Barium	184
			Cadmium	2.62
			Calcium	15,000
			Cobalt	40.7
			Copper	102
			Lead	1,200
			Magnesium	8,000
			Manganese	4,200
			Nickel	52.9
			Zinc	937
	S35S03	0.5	TPHC	73.5
			Barium	196
			Cadmium	7.18
			Calcium	4,160
			Copper	310

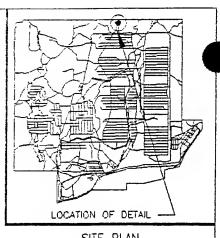
Table 5-19. SWMU #35 — Data Summary (Continued)

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g or µg/l)
SURFACE SOIL	S35S03	0.5	Lead	1,700
			Magnesium	2,120
			Zinc	969
SOIL BORING	91B24	20	TPHC	62.8
		40	TPHC	20.4
GROUNDWATER	91B24	47	Sodium	7,640
			Lead	24.7

5.3.13 SWMU #36 - DRILL AND TRANSFER SITE

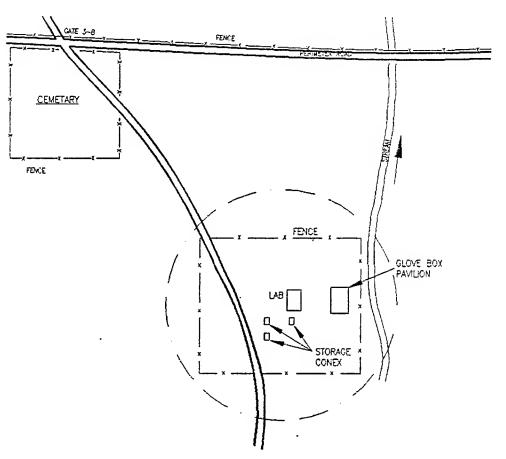
Activities at SWMU #36 were limited to quality assurance testing of GB nerve agents and transferring chemical agents from leaking munitions into one ton containers. Record searches at the ANAD Environmental Engineering offices reveal no indication of agent releases at this site. No evidence of ongoing agent-handling activity or areas of suspected soil contamination was noted during walk through inspections of the site in fall 1991.

No field sampling was conducted at SWMU #36. A map of this SWMU is presented as Figure 5-12.



FORT McCLELLAN MILITARY RESERVATION

SITE PLAN





500 APPROXIMATE SCALE IN FEET



APPROXIMATE SWMU BOUNDARY

NOTE: NO SAMPLES WERE COLLECTED AT THIS SWMUJ ONLY A DOCUMENTS REVIEW WAS PERFORMED.

SWMU #36 DRILL AND TRANSFER SITE

SITE NAME/LOCATION					
AMMUNITION STORAGE AREA ANNISTON ARMY DEPOT					
ANNISTON, ALABAMA					

JACO	REVISIONS				
PROJ	DATE	CHICO BY	DATE	DRWN BY	
	2/17/93	BHK	2/26/93	ŔΕ	
35030	6/3/93	BHK	5/3/93	KFR	

JACOBS ENGINEERING GROUP INC. Southern Region - Washington, D.C.

FIGURE NO. 5-12

5.3.14 SWMU #37 - VEHICLE WASH RACK

Contaminants of concern at SWMU #37 include oils, grease, industrial cleaning chemicals, and inorganics. Based on these findings, a suite of parameters that included inorganics, VOCs, and SVOCs was selected for chemical analysis.

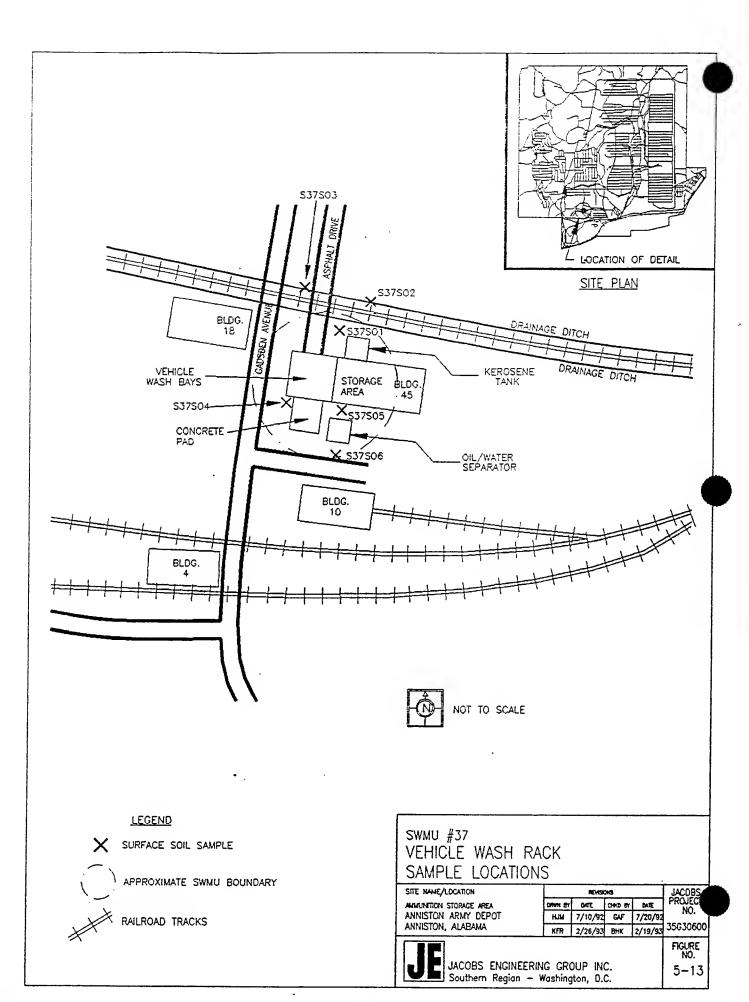
5.3.14.1 <u>Investigative Activities.</u> Six surface soil samples were collected and submitted to the laboratory. Sample locations for SWMU #37 are identified in Figure 5–13. A summary of contaminants detected above control screening values is presented in Table 5–20.

The site was revisited in April 1993 to confirm locations of soil sampling sites and observe site conditions. Soil samples were collected from areas where construction activities have severely altered natural soil horizons. Most of the area around SWMU #37 is covered with gravel, railroad track ballast, and asphalt.

Groundwater samples were not collected from SWMU #37 because no monitoring wells are located in the vicinity.

5.3.14.2 Results of Investigation.

Surface Soil Samples — Six surface soil samples, identified as S37S01, S37S02, S37S03, S37S04, S37S05, and S37S06 were collected from SWMU #37. Samples S37S01, S37S02, and S37S03 were collected within drainage channels on each side of the railroad tracks. These channels do not appear to receive wash rack operations runoff. Samples S37S01, S37S03, and S37S05 were analyzed for inorganics, VOC, and SVOCs. Samples S37S02, S37S04, and S37S06 were analyzed for inorganics only. The analytical results are presented in Table 5–20.



Expanded Site Inspection of the Ammunition Storage Area

Cyanide was not detected in any of the samples. Several inorganics were detected in all the samples at concentrations greater than control screening values. Several organic compounds were detected. Sample S37S01 contained 0.37 μ g/g of bis(2-ethylhexyl) phthalate, 0.31 μ g/g of benzo(a)pyrene, 0.0098 μ g/g of methylene chloride, 0.0043 μ g/g of toluene, and 0.0033 μ g/g of trichloroethylene. Sample S37S03 contained 0.23 μ g/g of anthracene, 1.1 μ g/g of benzo(a)anthracene, 1.4 μ g/g of benzo(a)pyrene, 1.8 μ g/g of benzo(b)fluoranthene, 0.98 μ g/g of benzo(g,h,i)perylene, 1 μ g/g of benzo(k)fluoranthene, 0.88 μ g/g of chrysene, 2.4 μ g/g of fluoranthene, 1.2 μ g/g of indeno(1,2,3-c,d)pyrene, 0.83 μ g/g of phenanthrene, 1.4 μ g/g of pyrene, and 0.0075 μ g/g of trichlorofluoromethane. Contamination detected in samples S37S01, S37S02, and S37S03 appears to be related to the railroad tracks only rather than the wash rack operation and consequently are not discussed in the remaining sections of this report.

Table 5-20. SWMU #37 — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g)
SURFACE SOIL	S37S01	0.5	Barium	179
			Beryllium	1.05
			Cadmium	22.1
			Calcium	19,000
			Chromium	114
			Copper	453
			Iron	46,000
			Lead	900
			Magnesium	8,400
			Molybdenum	16.5
			Nickel	76.5
			Potassium	1,710
			Zinc	594
			Bis(2-ethylhexyl) phthalate	0.37
			Benzo[a]pyrene	0.31
			Methylene chloride	0.0098
			Toluene	0.0043
			Trichloroethylene	0.0033
	S37S02	0.5	Barium	926
			Beryllium	2.06
			Cadmium	3.52
			Calcium	47,000
			Chromium	41.8
			Copper	53
			Lead	423
			Magnesium	13,000

Table 5-20. SWMU #37 — Data Summary (Continued)

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g)
SURFACE SOIL	S37S02	0.5	Manganese	5,800
•			Potassium	1,850
			Sodium	177
			Zinc	319
	S37S0 3	0.5	Calcium	3,160
			Copper	36
			Magnesium	1,550
			Lead	81.4
			Zinc	159
			Anthracene	0.23
			Benzo[a]anthracene	1.1
			Benzo[a]pyrene	1.4
			Benzo[b]fluoranthene	1.8
			Benzo[g,h,i]perylene	0.98
			Benzo[k]fluoranthene	1
			Chrysene	0.88
			Fluoranthene	2.4
AT.		į	Indeno[1,2,3-c,d]pyrene	1.2
			Phenanthrene	0.83
			Pyrene	1.4
			Trichlorofluoromethane	0.0075
	S37S04	0.5	Calcium	4,070
			Magnesium	2,250
			Zinc	302

Table 5-20. SWMU #37 — Data Summary (Continued)

MATRIX	SAMPLE I.D.	DEPTH (ft)	ELEMENT/ COMPOUND	CONCENTRATION (µg/g)
SURFACE SOIL	S37S05	0.5	Calcium	20,000
			Copper	36
			Lead	58.4
			Magnesium	8,700
			Zinc	134
	S37S06	0.5	Cadmium	6.06
			Calcium	26,000
			Copper	63.4
			Lead	127
			Magnesium	8,600
			Zinc	191

5.3.15 ANAD Northern Boundary Contamination Screening

Consideration was given to the potential for off-site migration of contaminants from the ASA. Surface water runoff from the investigated ASA SWMUs is carried in four stream channels which cross the northern boundary of ANAD. After evaluation of contaminant mobility in surface streams, explosives and nitrate/nitrite were selected as analytical parameters for Northern Boundary area sampling efforts. The analytical results are presented in Table 5-21.

5.3.15.1 <u>Investigative Activities</u>. Four sampling sites were proposed for the North Boundary contamination assessment. One site was eliminated from the sampling program due to a lack of water in the stream at the time of sampling. Locations of the three remaining sampling sites are shown on Figures 5-14 through 5-16.

5.3.15.2 Results of Investigation.

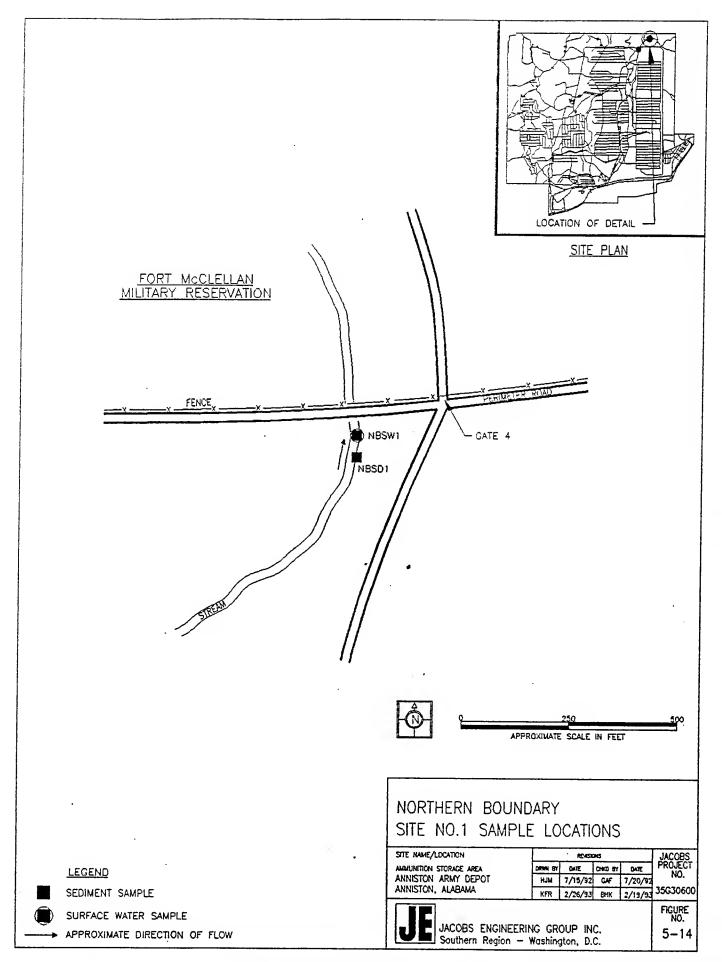
Sediment Samples — Three sediment samples, identified as NBSD1, NBSD2, and NBSD3, were collected from the northern boundary at 6 inches below the surface water/sediment interface. The samples were analyzed for nitrate/nitrite and explosives. No contaminants were detected in any of the sediment samples.

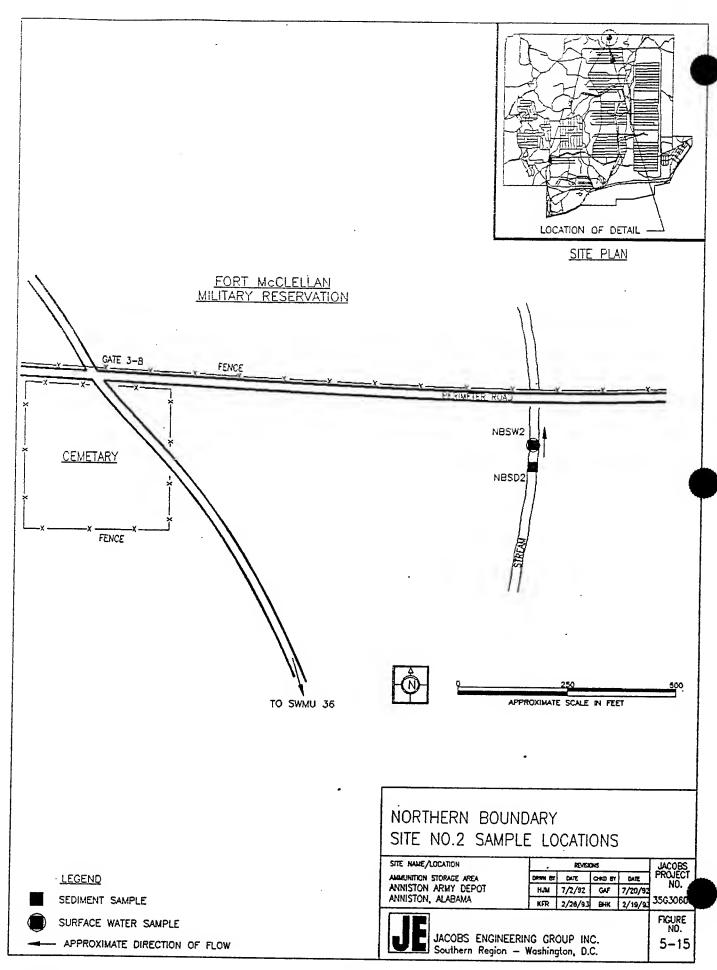
Surface Water Samples — Three surface water samples, identified as NBSW1, NBSW2, and NBSW3, were collected from water courses flowing out from the northern boundary of the ANAD. The samples were analyzed for nitrate/nitrite and explosives. The analytical results are presented in Table 5–21.

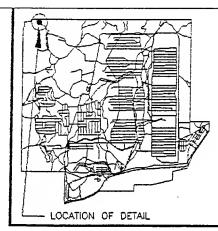
Nitrate/nitrite was detected in samples NBSW1 and NBSW3 at 92.6 μ g/l and 86.6 μ g/l respectively. Nitrate/nitrite was not detected in NBSW2. Explosives were not detected in any of the samples.

Table 5-21. Northern Boundary Area Samples — Data Summary

MATRIX	SAMPLE I.D.	DEPTH (ft)	ANALYTE	CONCENTRATIONS (µg/l)
SURFACE WATER	NBSW1	0	Nitrate/Nitrite	92.6
	NBSW3	0	Nitrate/Nitrite	86.6

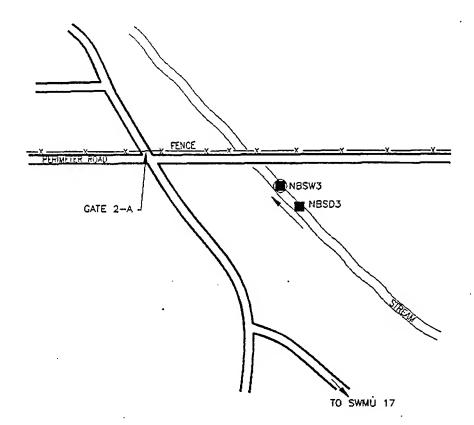






FORT MCCLELLAN MILITARY RESERVATION

SITE PLAN







NORTHERN BOUNDARY SITE NO.3 SAMPLE LOCATIONS

SITE NAME/LOCATION

AMMUNITION STORAGE AREA

ANNISTON ARMY DEPOT

ANNISTON, ALABAMA

	JACOBS			
CIRMIN BY	DATE	CHIED BY CATE		PROJECT
HJM	7/16/92	GAF	7/20/92	
KFR	2/26/93	BHK	2/19/93	35C30600



JACOBS ENGINEERING GROUP INC. Southern Region — Washington, D.C. FIGURE NO. 5-16

APPROXIMATE DIRECTION OF FLOW

LEGEND

SEDIMENT SAMPLE

SURFACE WATER SAMPLE

SECTION 6 NATURE AND EXTENT OF CONTAMINATION

The nature and extent of contamination has been initially identified during the Expanded Site Inspection (ESI) and will be more thoroughly defined during the remedial investigation. The extent of contamination was therefore not calculated or assessed during this investigation, but the nature of contamination was determined. Tables 5-1 through 5-4 evaluated the concentration of inorganic analytes from samples considered to be control samples. Concentrations of each inorganic analyte were averaged and doubled to develop a screening value to assess potential contamination in other samples. Organic contamination is considered to be possible for all compounds whose concentrations are in excess of the certified reporting limit (CRL). A summary of the analytical results is provided with an assessment of the behavior and fate of contaminants, contaminant indicators, and a conceptual model of contaminant migration.

6.1 SUMMARY OF ANALYTIC RESULTS

Section 5.3 presented a tabulation of the analytical results of sampling for groundwater, soil borings, surface soil, sediment, and surface water that exceeded control screening values for each solid waste management unit (SWMU). These results are briefly summarized below.

Contaminants detected above control screening values in all media were primarily inorganics and nitrate/nitrite. Organic compounds were detected with lower frequency than inorganic analytes.

Organic compounds detected in groundwater samples include:

- HMX in SWMU #10;
- RDX in SWMU #10:
- 4-Nitrotoluene in SWMU #17;
- Acetone in SWMUs #11, 15, and 17; and
- Bis(2-ethylhexyl) phthalate in SWMU #27.

Organic compounds detected in sediment samples include:

- TPHC in SWMU #17;
- Methyl ethyl ketone in SWMU #5;
- Acetone in SWMU #5;
- PCB 1254 in SWMU #5; and
- Coal tar derivatives in SWMU #5, including:
 - Benzo(a)anthracene;
 - Benzo(a)pyrene;
 - Chrysene; and
 - Fluoranthene.

Organic compounds detected in soil boring samples include:

- TPHC in SWMUs #15, #16, #17, and #35;
- Acetone in SWMUs #26, and #27;
- Methylene chloride in SWMU #26; and
- Trichloroethylene in SWMU #27.

Organic compounds detected in surface soil samples include:

- HMX in SWMU #14;
- 2,4,6-Trinitrotoluene in SWMU #10;
- 2,4-Dinitrotoluene in SWMU #17;
- Nitroglycerin in SWMU #17; and
- TPHC in SWMUs #15, #16, #17, and #35.
- SVOCs at SWMU #37
- Methylene chloride at SWMU #37
- Trichloroethylene at SWMU #37
- Trichlorofluoromethane at SWMU #37
- Toluene at SWMU #37

With one exception, no organic vapors were detected by organic vapor analyzer (OVA) during the soil boring program at any SWMU. Vapors were detected by flame ionization detector (FID) at one borehole location (91B12, SWMU #11) at a depth of 50 to 55 feet at a concentration of 28 ppm. However, methane interference with the instrument is possible, and analysis of the groundwater from the well completed in the borehole indicates no VOC contamination. Similarly, all other analytical data from the ASA indicated that site soil, sediment, surface water, and groundwater samples are virtually free of VOCs.

6.2 BEHAVIOR AND FATE OF RELEASES

A factor that significantly affects any conclusions which can be drawn about the nature and extent of contamination is the mobility of contaminants in the environment. In the subsurface, mobility is largely due to the solubility of contaminants in water. Solubility, in turn, is controlled by a number of synergistic factors which cause shifts in chemical equilibrium. These factors include vapor pressure, the pH and temperature of the water, and the concentrations of other dissolved constituents. In evaluating the mobility of a specific analyte or compound it is important to consider that changes in the chemical equilibrium of an element in groundwater can have significant effects on the solubility of other elements or compounds. For example, changes in potassium and manganese concentrations affect the solubility (and mobility) of cobalt.

6.3 ASSESSMENT OF DETECTED ELEMENTS AND COMPOUNDS

A discussion of the potential sources of contamination and their fates, is presented below by analyte or compound.

Acetone — Acetone was detected in several groundwater samples in concentrations ranging up to 21 μ g/l; in one sediment sample from SWMU #5 at 0.14 μ g/g; and in two soil boring samples in concentrations of 0.045 μ g/g and 0.064 μ g/g. Acetone is an ubiquitous laboratory solvent and is also used as a paint, varnish, and lacquer solvent and as a part cleaner.

Aluminum — Aluminum was detected above control screening values in groundwater, soil borings, and surface soil samples. Aluminum in groundwater was reported at concentrations ranging up to 31,600 μ g/l; the maximum value for soil borings is 27,000

μg/g; and for surface soils 56,000 μg/g. The concentration in the single surface water sample for SWMU #5 was 111 μg/l. At low pH in surface waters, Al^{+3} is soluble and can be toxic to aquatic organisms. Under the groundwater pH conditions at the site, most aluminum will be in the form of relatively insoluble hydroxides (microcrystalline gibbsite, bayerite, and other amorphous precipitates). Aluminum detected in soil and groundwater is possibly the result of naturally occurring clay minerals.

Barium — Barium, a common alkaline earth element, was detected above the control screening value in several soil borings at concentrations up to 547 μ g/g. Surface soil sample concentrations ranged up to 954 μ g/g. The single surface water sample for SWMU #5 had a level of 188 μ g/l. No barium was detected above the control screening value in groundwater samples or sediment samples. Barium is found naturally in carbonate and igneous rocks. Salts of this element are used in the manufacture of paints, linoleum, and paper. Under pH conditions common to the site, barium usually occurs in the form of insoluble barium sulfate, which greatly limits its mobility. The source of barium detected in soil and groundwater is possibly natural clays and other weathered material.

Beryllium — Another alkaline earth element, beryllium was detected in each of two groundwater samples from SWMUs #5 and #17 at identical concentrations of 3.22 μ g/l; in soil boring samples in the range up to 3.66 μ g/g; and in surface soils up to 2.42 μ g/g. This element is highly toxic and is not normally found in surface waters. Man-made sources of beryllium include explosives and propellants. At pH values found in water at the site, beryllium ions will form polynuclear hydroxide complexes which are highly insoluble. Even at lower pH, the beryllium will be tightly bound to clay materials.

Bis(2-ethylhexyl) phthalate — **Bis(2-ethylhexyl)** phthalate was detected in one groundwater sample from SWMU #27 at a concentration of 41 μg/l, and one surface soil sample at SWMU #37. Bis(2-ethylhexyl) phthalate is used industrially as a plasticizer for many resins and elastomers and is also used as a vacuum pump liquid.

Cadmium — Cadmium was detected in one groundwater sample from SWMU #17 at a concentration of 18.4 μ g/l, in one soil boring and one sediment sample at concentrations of 6.51 and 0.899 μ g/g, respectively, and in several surface soil samples collected throughout the ASA at values up to 22.1 μ g/g. Cadmium is not a common component of rocks and is often introduced to the environment through discharges from plating operations and manufacturers of batteries, paints, and plastics. It is also a common component of explosives and propellants. It is a common indicator of pollution. Data on solubility of cadmium are limited, although it is presumed that the cadmium is in the form of low to moderately soluble salts in the pH conditions at the site.

Calcium — Calcium was detected in groundwater, soil boring, surface soil, and sediment samples collected at the site in concentrations ranging up to $63,000~\mu g/l$, $1,730~\mu g/g$, $100,000~\mu g/g$, and $3,850~\mu g/g$, respectively. Calcium was detected at a concentration of $130,000~\mu g/l$ in the surface water sample from SWMU #5. At high concentrations, calcium can cause excessively hard water resulting in poor taste and pipe scaling. A possible source for calcium is the carbonate rock which underlies the site. Calcium is probably the most common cation found in natural waters although free Ca⁺² in the water is rare under equilibrium conditions. Calcium is tied directly to the carbon cycle which is equilibrium-driven, largely due to changes in pH.

Chromium — Chromium was detected above the control screening value in groundwater, surface soil, and soil boring samples at concentrations ranging up to 145 μ g/l, 114 μ g/g, and 70.8 μ g/g, respectively. There are no natural sources of chromium at the site; on-site chromium contamination probably results from plating or painting activities. Chromium has also been employed as a component of laboratory cleaning solutions and is a component of explosives. Under the groundwater conditions found at the site, hexavalent chromium will be present as chromates and dichromates; trivalent species are hydrolyzed and precipitate as chromium hydroxide leaving a minor amount in solution.

Coal Tar Derivatives — Benzo[a]anthracene (0.51 μ g/g), benzo[a]pyrene (0.58 μ g/g, chrysene (0.71 μ g/g) and fluoranthene (0.88 μ g/g) were detected in a sediment sample from SWMU #5. These three compounds were also found in the surface soil at SWMU #37, together with benzo(b)fluoranthene, benzo(g,h,i) perylene, benzo(k)fluoranthene, ideno(1,2,3-c,d) pyrene, phenanthrene, trichlorofluoromethane and pyrene. All of these compounds have low water solubility and tend to bind to the soil matrix. These compounds are components of coal tar which is used in the production of coatings, dyes, and luminescent surfaces. They are also known as polynuclear aromatic hydrocarbons (PAHs).

Cobalt — Cobalt was detected in several groundwater samples at concentrations up to 433 μ g/l; in soil boring samples at concentrations up to 66.8 μ g/g, and in surface soil samples at concentrations up to 90.8 μ g/g. No cobalt was detected above the control screening value in sediment or surface water samples collected on site. Cobalt is considered a carcinogen; it has a limited distribution in the environment. Cobalt is readily adsorbed by colloidal particles of oxides and hydroxides of magnesium and iron, two common constituents found in samples. As in the cases of aluminum and barium, the cobalt detected is possibly associated with sediment in the water samples.

Copper — Copper was found in several soil boring samples at concentrations up to 146 $\mu g/g$. Surface soil sample concentrations ranged up to 453 $\mu g/g$. One sediment sample had a concentration of 97.6 $\mu g/g$. No copper was found in the groundwater in excess of the control screening value. In natural waters like those at the site, copper has a low to moderate solubility which is probably limited by the presence of cuprous oxide and hydroxy-carbonate minerals. Copper is a naturally-occurring element found in local rocks. It is also widely used as a preservative and as an algicide.

Cyanide — Cyanide was detected at a concentration of 1.92 μ g/g in one surface soil sample at SWMU #26. Any detection of this toxic ion is considered to be an indication of contamination. Cyanide ion CN⁻ is strongly basic and reacts with alkali metals such as calcium, potassium, and sodium to form cyanide compounds (Ca(CN)₂, KCN, NaCN) which are relatively water soluble. Sources of cyanide include plating wastes, mine tailings and ore recovery operations, and propellants.

Explosives — HMX was detected in one groundwater sample from SWMU #10 at a concentration of 86 μ g/l. RDX was detected in two groundwater samples from SWMU #10 at 4.56 and 40.6 μ g/l. 4-Nitrotoluene was detected in one groundwater sample from SWMU #17 at 2.25 μ g/l. 2,4,6-Trinitrotoluene was detected in a surface soil sample at SWMU #10 at a concentration of 1.28 μ g/g. HMX was detected at a concentration of 1.01 μ g/g in a surface soil sample at SWMU #14. 2,4-Dinitrotoluene and nitroglycerine were detected in a surface soil sample at SWMU #17 at concentrations of 0.448 and 17.6 μ g/g, respectively. At the concentrations detected, these compounds do not present an explosion hazard.

Iron — Iron has been detected above the control screening value in groundwater, soil boring, and surface soil samples, with maximum values of 99,000 μ g/l, 53,000 μ g/g, and 69,000 μ g/g respectively. Iron was detected at 481 μ g/l in the surface water sample from SWMU #5. Iron is an abundant and widespread constituent of rocks at the site. Under reducing conditions (such as in groundwater) iron is present as the soluble ferrous ion (Fe⁺²) or complexed with organic molecules. As the pH approaches neutrality, ferrous ions are oxidized to the relatively insoluble ferric state (Fe⁺³) which can form complexes with organic molecules.

Lead — Lead was detected above the control screening value in two groundwater samples at a concentration of 100 μ g/l. Soil boring concentrations ranged up to 136 μ g/g, surface soil concentrations ranged up to 9,100 μ g/g, and sediment concentrations ranged up to 45.1 μ g/g. Lead is a highly toxic metal. Lead is a common trace component of rocks at the site and is normally found in the Pb⁺² oxidation state. The solubility of lead in water is very pH dependent. Under groundwater pH conditions at the site, lead will most commonly form complexes with carbonate and sulfate minerals which are only slightly soluble in water.

Magnesium — Magnesium was detected in all groundwater, soil boring, surface soil, and sediment samples. Groundwater concentrations range up to 33,000 μg/l, soil boring concentrations to 1,990 μg/g, surface soil concentrations to 59,000 μg/g, and sediment concentrations to 1,190 μg/g. Magnesium was detected in the surface water sample for SWMU #5 at a concentration of 12,200 μg/l. Magnesium has not been determined to be detrimental to human health or the environment; however, in high concentrations it can impart a distasteful quality to drinking water and is a significant contributor to water hardness. This element can be derived from igneous and sedimentary rocks and is quite soluble in water in its only ionization state (Mg^{+2}).

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Manganese — Manganese was detected above the control screening value in one groundwater, one sediment, and several soil boring and surface soil samples. The manganese concentration in the groundwater sample was 18,000 μ g/l, the sediment sample concentration was 1,400 μ g/g. Surface soil concentrations ranged up to 7,100 μ g/g. Soil boring concentrations ranged up to 3,600 μ g/g. The surface water sample from SWMU #5 had a detected concentration of 1,010 μ g/l. When water containing high concentrations of manganese is exposed to air and oxygenated, it will become turbid from the formation of colloidal material due to the oxidation of manganese to the Mn⁺⁴ state. Manganese is a common element at the site and is found in both igneous and sedimentary rocks primarily as oxides and hydroxides in which the oxidation state of the element is +2, +3, or +4. These oxides tend to adsorb other metallic cations very strongly. Under site groundwater conditions, the most commonly occurring oxidation state of manganese is as the divalent cation Mn⁺². In surface waters and soils the predominant state of manganese varies with the degree of oxidation and the presence of organic materials.

Mercury — Mercury was detected in samples from six soil borings at concentrations ranging up to 0.52 μ g/g. Mercury is a highly toxic element; it is a rare element in natural waters and its presence almost always is a result of human activity including pesticide application and disposal of industrial and mining wastes; mercury is also a component of explosives. A unique characteristic of elemental mercury among metals is its ability to volatilize at relatively low temperatures. At the site, most mercury will be in the form of oxides of low solubility and mercury will most probably be bound to sediments.

Methylene chloride — Methylene chloride was detected in one soil boring sample at SWMU #26 a concentration of 0.03 μ g/g. Methylene chloride is a very common laboratory solvent and is also commonly used in paint removers and thinners, solvent degreasing, plastics processing, and aerosol propellants.

Methylethyl ketone — Methylethyl ketone was detected in one sediment sample from SWMU #5 at a concentration of 0.025 μ g/g. Methylethyl ketone is used as a laboratory solvent and is also commonly used in paint removers, resins and cements, manufacture of smokeless powder, printing, and acrylic coatings.

Molybdenum — Molybdenum was detected above the control screening value in surface soil samples up to 16.5 μ g/g. Molybdenum under site conditions is probably present in an anionic species (molybdate) and its concentration is possibly due to the presence of molybdenum deposits in rocks.

Nickel — Nickel was detected in two groundwater samples in concentrations of 128 and 180 μ g/l, and in several soil boring and surface soil samples. Concentrations ranged up to 61 μ g/g for soil boring and up to 84.4 μ g/g for surface soil samples. Nickel has been identified as a carcinogen; it is a fairly common trace component of rocks at the site. It is used in the electroplating industry and is present in trace quantities in explosives. Under conditions at the site, most nickel will be in the oxidation state of Ni⁺² which is strongly adsorbed by iron and manganese oxides. The nickel detected in the samples is in low concentrations and is probably in soil bound compounds.

Nitrate/Nitrite — Nitrate/nitrite was detected in all groundwater samples (when analyzed) at the site in concentrations ranging up to 1,050 μ g/l. It was detected at 2.07 μ g/g in one sediment sample, at SWMU #10 and at 4.14 μ g/g in one surface soil sample at SWMU #10. It was detected at SWMU #11 in two soil borings at 1.41 and 2.58 μ g/g. Nitrite and r.itrate generally result from the two-step breakdown of proteinaceous materials and ammonia in the groundwater; it can also result from the decomposition of certain explosives. Nitrate is the predominant form in the environment because nitrite (the intermediate step) is rapidly assimilated by nitrate-producing bacteria. It is very soluble in water. Nitrate is a plant nutrient which may contribute to increased eutrophication of surface waters.

Polychlorinated biphenyl — PCB 1254 was detected in a single sediment sample at SWMU #5 at a concentration of 0.21 μ g/g. PCBs have been widely used as insulation around wiring and as a coolant in electrical capacitors and transformers.

Potassium — Potassium is an alkali metal which was detected above the control screening value in groundwater, soil boring, and surface soil samples. The concentration range for was 12, 300 μ g/l; soil borings was up to 928 μ g/g; the range for surface soils was up to 1,850 μ g/l. The surface water sample for SWMU #5 had a detection of 20,200 μ g/l. Potassium is a common element found in sedimentary rocks and does not readily remain in solution. Potassium minerals in silicate rocks are very resistant to attack by water. Potassium in solution is readily reincorporated into clay materials. The concentrations reported for the groundwater samples are possibly due to the presence of clays in the unfiltered sample.

Silver — Silver was detected in one groundwater sample at a concentration of 105 μ g/l from SWMU #26 and from two surface soil samples at concentrations of 2.65 and 2.92 μ g/g. Silver is a rare metal which may occur naturally in low concentrations in areas of igneous rock. It may also be introduced to natural waters from electroplating operations and is a component of explosives and propellants. In groundwater at the site silver will be most likely found as silver oxide which has a moderate-to-low solubility in water.

Sodium — The alkali metal sodium was detected in several groundwater samples in concentrations ranging up to 38,400 μ g/l. A concentration maximum of 278 μ g/g was observed in soil boring samples; surface soil samples had concentrations ranging up to 177 μ g/g. The surface water sample concentration for SWMU #5 was reported as 2,810 μ g/l. In combination with other cations, excess sodium in soil can cause swelling which results in decreased permeability. Sodium is very soluble in water but can be adsorbed by minerals with high cation exchange capacities such as clays. Its presence in soils and waters at the site is possibly due to weathering and dissolution of evaporite rocks and connate water.

Thallium — Thallium was detected in one groundwater sample from SWMU #17 at a concentration of 2.64 μ g/l. Thallium is a rare metal of low solubility under site conditions and will be present primarily as oxide minerals. Thallium is introduced to the environment when used in rodenticides and insecticides; as catalysts in certain organic syntheses; in the production of dyes and pigments; in the manufacture of lenses and optical equipment, fireworks, and imitation precious jewelry; and in mineralogical analysis.

Total Organic Carbon (TOC) — TOC was detected in one groundwater sample from SWMU #14 at a concentration of 3,150 μ g/l; in two soil boring samples at 772 and 6,970 μ g/g; in two sediment samples taken at SWMUs #10 and #11 at concentrations of 3,680 and 9,230 μ g/g; and in one surface soil sample at a concentration of 17,900 μ g/g. TOC is a measure of the organic matter in a sample and includes both refractive and non-refractive carbon compounds, cellulose and lignins, respectively. TOC components may be soluble or insoluble in groundwater.

Total Petroleum Hydrocarbons (TPHC) — TPHCs was detected in six soil boring samples, ten surface soil samples, and two sediment samples at concentrations ranging up to 62.8 μ g/g, 658.0 μ g/g, and 110 μ g/g, respectively. Detection of TPHCs in the environment is considered indicative of contamination. TPHCs are representative of the less volatile, higher molecular weight petroleum products including diesel fuel, kerosene, hydraulic fluids, oils, and petrochemical residuals. These compounds have low solubilities in water and are generally adsorbed onto sediments.

Trichloroethylene — Trichloroethylene was detected in one soil boring sample from SWMU #27 at a concentration of 0.011 μ g/g and in one surface soil sample from SWMU #37. Trichloroethylene is used in metal degreasing, dry cleaning, electric parts cleaners, paint and adhesive thinners, as an extraction and solvent, and as a refrigerant and heat exchange liquid.

Vanadium — Vanadium was detected in several groundwater samples at concentrations ranging up to 109.0 μ g/l. Several soil boring samples also contained vanadium in concentrations ranging up to 76.5 μ g/g. Several surface soil samples contained vanadium in the range of up to 83.4 μ g/g. Vanadium is not a rare element and is present in low concentrations in rocks at the site. It is widely used as a catalyst in chemical production, is a by-product from the petrochemical industry, and is a component of explosives and propellants. Under site conditions, vanadium can be found in a variety of oxidation states and may be stable in both anionic and cationic species. Depending on pH and other electrochemical factors, the solubility of vanadium and its compounds is highly variable.

Zinc — Zinc was detected in most groundwater, soil boring, surface soil, and sediment samples at concentrations up to 1,240.0 μ g/l, 336.0 μ g/g, 969.0 μ g/g, and 422 μ g/g, respectively. The surface water sample for SWMU #5 had a concentration of 450 μ g/l. Zinc is a very common element of sedimentary rocks at the site. It has been widely used to galvanize other metals and is a component of explosives and propellants. Under site conditions, most zinc will be in the form of zinc hydroxide or zinc carbonate.

6.4 CONTAMINATION INDICATORS

For purposes of this ESI, any detection of inorganic analytes above control screening values is considered to be an indicator of potential contamination. This includes the inorganics barium, calcium, cobalt, copper, iron, lead, magnesium, manganese, molybdenum, nickel, potassium,

silver, sodium, vanadium, and zinc which may have significant natural contributions to the levels detected at the site. Although the detections of these elements may be mostly or entirely due to variations in the natural distributions of these elements, the control sample regimen adopted by this ESI does not provide a sufficient statistical base to exclude these elements as indicators of potential contamination.

The detection of any organic compound above its detection limit is considered to be an indicator of potential contamination.

6.5 CONCEPTUAL MODEL

A conceptual model is a graphical depiction of the sources, pathways, and receptors for contamination. The conceptual model for the ASA was developed based upon evidence of past practices, contained in ANAD records and reports of previous investigations which could have resulted in release of contaminants; the results of the field investigation work, local soil and hydrogeological conditions; and ecological and consideration of demographic factors related to the ASA and adjacent areas. Primary and secondary sources of contamination are described and contaminant release mechanisms are portrayed. The migration pathways for contaminants are identified, as are potential receptors and exposure routes such as ingestion, inhalation, and dermal contact.

Generally, the nature of the contaminant tends to govern the migration pathway and, consequently, the type of receptor exposed. For example, airborne contaminants can be transported great distances and affect biota and human receptors far from the sources. Similarly, soluble contaminants in ground or surface waters can be transported down-gradient and may affect distant agricultural, recreational, and municipal supply users. Under different circumstances insoluble contaminants may be closely bound to sediments and have little chance of migrating from the primary source of contamination. With the pathway identified, data on sensitive areas, on-site activities, and proximity to human receptors are incorporated into the conceptual model. The exposure routes to the receptors depend upon the toxicological nature of the contaminant.

Contamination indicators exhibit similar characteristics for transport through the environment (e.g. primarily water insoluble, sediment bound and transported, atmospheric release as dust and fumes). A conceptual model for these elements and compounds is presented in Figure 6-1. The primary sources of contaminants are depicted as the SWMUs. In many cases, specific site activities which could be a source of the contaminants can be identified. Specifically:

Cadmium — Cadmium may be a trace component of the explosives and propellants disposed of at SWMU #17; it may also be a residual from scrap steel and paint chips.

Chromium — The occurrence of chromium in most samples may be due to several maninduced factors, including explosive handling and disposal, dust transport, and waste management.

Cyanide — Cyanide was detected in a single surface soil sample at SWMU #26. It is possibly a residue from plating materials used for site vehicles and equipment.

Coal Tar Derivatives — A variety of hydrocarbons were detected in a sediment sample from SWMU #5. The possible sources are the creosote-treated railroad ties which were observed on the bottom of the sinkhole (SWMU #5).

Explosives — Explosives were detected at SWMU #11 (TNT Washout Facility Leaching Beds) and SWMU #17 (Demolition Pit). The detections are obviously results of past disposal operations at those locations.

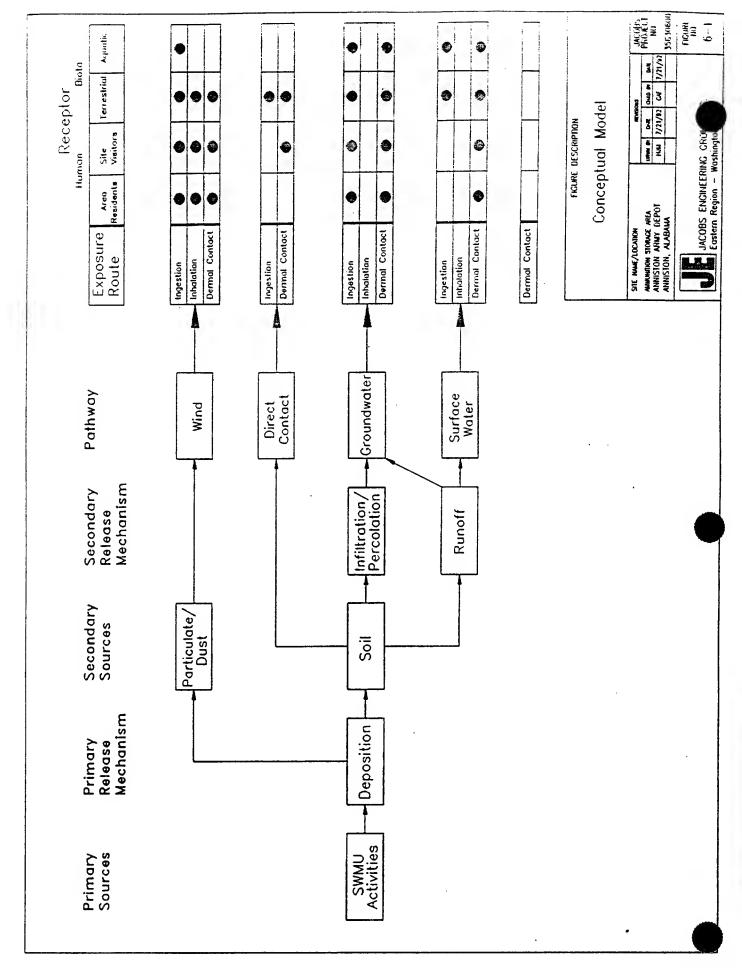
Lead — Lead was detected at several SWMUs. Lead is a component of paints and old piping, and is a by-product of the combustion of gasoline and diesel fuels. It also is widely used as the projectile material in ammunition. Its widespread occurrence in samples and high levels in SWMU #37 samples suggest that airborne dispersion of this element has occurred.

Nickel — Nickel was detected at SWMU #17 (Demolition Pit) and SWMU #5 (Sinkhole). Nickel is a trace constituent of explosive compounds. Its occurrence at the SWMUs may be the result of explosive disposal and waste management practices (e.g., dumping in the sinkhole).

Silver — Silver was detected at SWMU #26 (North TNT Burial Pit). It is a trace element often used as a catalyst in explosives and propellants.

TPHCs — TPHCs were detected at SWMU #15 (Propellant Disposal Facility), SWMU #16 (Burning Ground), and SWMU #17 (Demolition Pit). Primary sources for TPHCs at these sites are likely to be oil and hydraulic fluid leaks from vehicles and equipment and flammable liquids which may have been used to initiate combustion.

Vanadium — Vanadium was widespread about ANAD. It may be a trace component of explosives and propellants and may have been dispersed by the wind during demolition activities or transported around the site during waste disposal.



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Contaminants, once deposited on the ground, may follow several pathways through secondary sources and release mechanisms before reaching human and biotic receptors. Figure 6-1 depicts a conceptual model for non-volatile contaminants and is applicable to all SWMUs.

As seen in Figure 6-1, the wind pathway is of concern because large portions of the soil entrained by the wind are fine particles which may contain soil-bound contaminants such as beryllium, cadmium, and lead. Fine particulates have the greatest potential for penetrating deep within the respiratory tracts of receptors, where the most severe toxicological effects can occur. Additionally, the finer the particulate, the greater the dispersion distance between the primary and secondary sources. Therefore, contaminants in wind-borne particulates are a concern to on-site workers and visitors, area residents, and biota.

Workers and visitors to the site and on-site biota may be subjected to soil-borne contamination by direct contact with the material. Primary entry routes for contaminants in humans is through the skin and eyes. Skin adsorption of the contaminants arsenic and chromium are of particular concern. Biota which are most affected by direct contact with contaminants in the soil include plants through uptake of materials through the roots and by direct contact with outer tissues, and soil dwelling invertebrates and vertebrates. Excessive uptake of certain elements (sodium, manganese) can adversely affect plant growth primarily through disruption of ionic equilibrium between the soil and plant roots. The contaminant can then be transmitted further in the food chain when these plants and animals are ingested by higher order herbivores (deer, cattle, dove) and carnivores (pygmy rattlesnake, red-tailed hawk, humans). Pollutants which have cumulative effects with chronic exposure such as lead or mercury can cause severe systemic distress in individuals.

Precipitation on contaminated soils and other surfaces can transport contaminants by two pathways. Contaminants which are more soluble in water may infiltrate into the groundwater table. The degree to which a soluble contaminant is dispersed is dependent upon aquifer characteristics such as hydraulic gradient, porosity, and permeability of the sediment/rock matrix. Isolated perched aquifers are most likely to be affected by infiltrating contaminants at the ASA. Based on historical hydrogeological data, the transmissivity of isolated perched aquifers does not facilitate the rapid dispersal of soluble contaminants.

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Precipitation can also transport contaminants to soils by surface runoff. Depending on such factors as rainfall intensity, soil particle size, topographic slope, and degree of vegetative cover, sediment loads in runoff can be very high. Any sediment will ultimately be deposited once the flow is dissipated, usually in a pond, creek, or other body of surface water. Runoff discharged into depressions may subsequently percolate through the soil into the surficial aquifer. Soil deposits in stream channels may be transported long distances from the site and affect significant numbers of downstream users of water resources. Surface water runoff carrying significant loads of soluble nutrients such as nitrates and TOC can accelerate the eutrophication process in lake and pond systems. Stagnation in lakes, especially in the summer can contribute to reduction in dissolved oxygen concentration, algal blooms, and fish kills. Plant uptake or ingestion by animals of contaminated surface water may be a factor. The primary exposure path for human receptors is through direct contact with the water (e.g. swimming).

SECTION 7 COMMUNITY RELATIONS

In November of 1990, ANAD RMD personnel conducted interviews with residents of Anniston and surrounding communities to determine their concerns about ANAD. The primary environmental concerns expressed by the public included ANAD's impact on Coldwater Spring (the source of drinking water for 72,000 local residents), the chemical demilitarization program, the effect of discharges on the pygmy sculpin (a small fish considered threatened whose critical habitat encompasses portions of ANAD and adjacent waters), and general contamination at the 44 SWMUs at the facility.

To respond to public concerns, a Public Involvement and Response Plan (Community Relations Plan) was issued in October 1991. The objective of the plan is to provide techniques that will ensure effective communication between the Army, government agencies, and the public regarding the environmental studies ongoing at ANAD.

The plan was designed to fulfill the requirements contained in CERCLA (including Section 117 of SARA), the Army Public Affairs Plan for Installation Restoration Programs, EPA guidance and publications on public involvement in the Superfund Program and CERCLA compliance with other environmental statutes, the Office of Solid Waste's Superfund Community Relations Publication, and the National Oil and Hazardous Substances Pollution Contingency Plan.

Implementation of the Community Relations Plan provides concerned parties with opportunities to review and comment on Remedial Investigation and Feasibility Study plans prepared for ANAD and on recommended remedial action alternatives. It also provides the media with the information they need, identifies issues and areas of concern, and provides for a single entity for dissemination of information regarding the environmental work being conducted at ANAD.

The plan specifies communication techniques to be employed and places responsibility for employing each technique on various personnel at ANAD and other Army commands. There is regular communication between ANAD and the EPA, the U.S. Army Environmental Center, Calhoun County,

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the City of Anniston, the Alabama Department of Environmental Management, members of the media, the general public, and the employees at ANAD.

Communication techniques include project status meetings, milestone meetings, news and press releases, a technical review committee, public meetings, a community information line, onsite tours, information repositories, and policy letters.

SECTION 8 CONCLUSIONS AND RECOMMENDATIONS

The Expanded Site Inspection (ESI) of the Anniston Army Depot (ANAD) Ammunition Storage Area (ASA) focused on identifying and evaluating possible contamination of soils, sediments, groundwater and surface water that may have been caused by past activities at fifteen solid waste management units (SWMUs). Activities undertaken as a part of the ESI included review of historical file material; interviews with ANAD personnel; evaluation of data in previous remediation reports; field activities including visual observations, geophysical surveys, installation of groundwater monitoring wells and collection of groundwater, surface water, surface and subsurface soil, and sediment samples for laboratory analysis; and an evaluation of reported laboratory data to support conclusions on possible contamination to make recommendations on further remedial actions.

8.1 GENERAL CONCLUSIONS

Contamination from volatile organic compounds is not a concern in the ASA. Vapors detected at only one borehole (91B12 in SWMU #11) are believed to be the result of methane interference since analysis of the groundwater from the well completed at this borehole showed no volatile organic compound (VOC) contamination. No volatile or semi-volatile compounds were detected in surface soil samples. The positive correlation between non-detections of VOCs in the field and non-detections in the laboratory data suggests the absence of VOCs.

During the remedial investigation, it is recommended that surface water samples be collected for background characterization. Background surface water samples should be analyzed for full scan parameters to define background concentrations. Surface water samples should be collected at locations that have not been impacted by past waste management activities. The analytical results generated should then be compared with SWMU-specific surface water samples to assess the presence of contamination caused by activities at the ASA.

To provide better information on the groundwater flow direction, gradient, and velocity in the aquifers, it is recommended that additional monitoring wells be installed, monitored, and sampled. Groundwater samples from these wells should be analyzed for full scan parameters to define background concentrations. The monitoring wells should be installed at locations that have not been impacted by past waste management activities. Analytical results from the background monitoring wells should then be compared with the results from other monitoring wells to assess the presence of contamination in the groundwater caused by activities at the ASA.

The elements or compounds detected above background are considered to be evidence of potential contamination as described in the SWMU-by-SWMU presentation in the following sections.

8.2 SWMU-BY-SWMU CONCLUSIONS AND RECOMMENDATIONS

8.2.1 SWMU #5 - Sinkhole

Description: The Sinkhole is a water-filled, 0.63 acre depression located east of the B-block of storage igloos in the ASA. SWMU #5 was used periodically from 1942 to 1978 for disposal of various wastes. The Sinkhole was cleared of most dumped debris in 1978 (USAEHA, 1986a).

Investigation: Four surface soil samples, one sediment sample, one surface water sample, and two groundwater samples were used to evaluate SWMU #5.

Potential Contamination: The indicators of potential contamination detected in the samples were inorganics, PCB 1254, and coal tar derivatives in the sediment sample; and inorganics in the surface soil, groundwater, and surface water samples.

Recommendation: As potential contamination from prior disposal activities cannot be ruled out, it is recommended that further investigative action be undertaken at this SWMU as a part of the planned RI at the ASA.

8.2.2 SWMU #8 — Acid Disposal Pit

Description: The Acid Disposal Pit is located in a highly restricted, remote area of the ASA between the C and G-blocks of storage igloos. The concrete pit was used from 1959 to 1961 for the disposal of various chemicals. It has been filled in and is now overgrown with trees and grass.

Investigation: Physical evidence of the pit has been obscured to such an extent that it could not be located by field observation or geophysical survey. Consequently, no samples pertinent to the characterization of the site were collected. Since the conclusion of ESI field activities, historical aerial photographs not previously available have been reviewed. They suggest that no disposal activity had occurred in the areas that were investigated during the ESI. Subsequently an original photograph of the SWMU and a reinspection of an area nearby indicates that this area may be the actual location.

Potential Contamination: No sample data are available to evaluate SWMU #8.

Recommendation: It is recommended that further attempts be made to locate this SWMU and samples be collected to evaluate the potential for contamination spread at SWMU #8. This work should be incorporated into the planned RI at the ASA.

8.2.3 SWMU #10 — TNT Washout Facility

Description: SWMU #10 is located in the central portion of the ASA in a restricted access area approximately 3,300 feet north of I-block and 100 feet from Building 172. From 1948 to the mid-1950's, and sporadically after that, slurry from munitions washout operations was discharged from Building 172 into the sedimentation tank. Overflow from the tank was discharged to leaching beds (SWMU #11).

Investigation: One surface soil sample, two sediment samples, 11 soil boring samples, and two groundwater samples were collected to evaluate SWMU #10.

Potential Contamination: The indicators of potential contamination detected in the samples were calcium, nitrate/nitrite, and the explosive 2,4,6-trinitrotoluene in the surface soil sample; inorganics, nitrate/nitrite, and the explosives HMX and RMX in the groundwater samples; and calcium, TOC, and nitrate/nitrite in the sediment samples.

Recommendation: Based on the detection of explosives in the surface soil and groundwater samples, it is recommended that further investigative action be undertaken at SWMU #10 as a part of the planned RI at the ASA.

8.2.4 SWMU #11 -- TNT Washout Facility Leaching Beds

Description: The leaching beds are located across the road from SWMU #10. The beds consisted of a series of 24 parallel troughs dug into the soil, covering approximately 0.75 acres. The beds received explosives washout waste water from 1948 to the mid-1950's, and sporadically thereafter. Explosives concentrations in the beds are reportedly in the range of up to 60%.

Investigation: Two surface soil samples, two sediment samples, six soil boring samples, and one groundwater sample were collected to evaluate SWMU #11. Four more groundwater samples were planned, but two of the wells to be sampled could not be located and two others were too badly damaged to be used.

Potential Contamination: The potential indicators of contamination detected in the samples include inorganics in the surface soil; inorganics and acetone in groundwater samples; nitrate/nitrite in the soil boring samples; and manganese, and TOC in the sediment samples.

Recommendation: The lack of soil samples from within the SWMU and sufficient groundwater samples in the vicinity of the SWMU presents a gap in the data required to

perform an evaluation of potential contamination. It is recommended that further investigative action be undertaken at this SWMU as part of the planned RI at the ASA.

8.2.5 SWMU #14 — Laundry Waste Leaching Facility

Description: SWMU #14 is located northeast of SWMU #10 and north of the I-Block of storage igloos. From 1948 to 1973, this SWMU was used to dispose of wash water from the explosives handlers laundry. Waste water from the washing machine was piped to an above grade sump and then to the leaching bed. Runoff from the leaching bed discharged to a stream. The laundry was demolished circa 1973.

Investigation: Four surface soil samples and one groundwater sample were collected to evaluate SWMU #14.

Potential Contamination: Inorganics and the explosive HMX were detected in the soil samples. TOC was detected in the groundwater sample.

Recommendation: Due to the detection of an explosive in soil samples, it recommended that further investigations be undertaken at this SWMU as a part of the planned RI at the ASA.

8.2.6 SWMU #15 — Propellant Disposal Facility

Description: SWMU #15 is located in the northwest portion of the depot, approximately 2,400 feet northeast of building S-602. Propellent disposal operations were conducted from circa 1968 to 1978. There are two disposal units, one of which was used to dispose of unsymmetrical dimethylhydrazine (UDMH), the other to dispose of inhibited red fuming nitric acid (IRFNA). Each unit consists of a concrete pads and small incinerators.

Investigation: Five soil boring, two surface soil, and two groundwater samples were collected to evaluate SWMU #15.

Potential Contamination: TPHC was detected in both the soil boring and surface soil samples. Nitrate/nitrite and acetone were found in one of the groundwater samples.

Recommendation: The TPHC contamination was detected at a relatively low concentration. However, because contamination was found, an additional field investigation is recommended for this SWMU.

8.2.7 SWMU #16 — Burning Ground

Description: The Burning Ground is located in the northwestern portion of the depot. The burning area covers approximately 6 acres. Current burning operations are conducted in steel burning pans, a burn cage, and a dunnage burning area. Materials burned include explosives, ammunition, and inert materials. Three burial pits within the SWMU boundary have been used for disposal of a variety of hazardous materials: Comp B, octal, white phosphorus, hexachloroethane, explosives, and others. The three pits are now closed and covered. A RCRA Subpart X permit application for ongoing operations has been submitted.

Investigation: Investigation was confined to the perimeter of the burning ground due to the hazardous material distributed in the area. Five soil boring, four surface soil, and two groundwater samples were collected to evaluate SWMU #16.

Potential Contamination: Indicators of potential contamination detected at SWMU #16 include TPHC and inorganics in the surface soil and soil boring samples. Inorganics and nitrate/nitrite were detected in the groundwater samples. It should be noted that although boring 91B16 was installed in very close proximity to a former white phosphorus pit, the soil boring and groundwater samples were not analyzed for phosphorus.

Recommendation: This is an active OB area with a RCRA Subpart X permit pending. Due to the active status of the site, future investigation will be managed under the provisions of the RCRA Corrective Action program.

8.2.8 SWMU #17 — Demolition Pit

Description: The demolition pit is located in the northwest corner of the depot. The pit is approximately 5 acres and contains 22 detonation sites. The pit is currently active and has been in use for at least 40 years. The pit is used for destruction of high explosive items including cartridges, bombs, grenades, rockets, warheads, etc. A RCRA Subpart X permit application for ongoing operations has been submitted.

Investigation: Three soil boring samples, two surface soil samples, two sediment samples, and one groundwater sample were collected to evaluate SWMU #17.

Potential Contamination: Indicators of potential contamination detected in SWMU #17 include inorganics and TPHC in the soil boring samples; inorganics, TPHC, and the explosives 2,4-dinitrotoluene and nitroglycerin in the surface soil samples; inorganics and TPHC in the sediment samples; and inorganics, acetone and the explosive 4-nitrotoluene in the groundwater samples.

Recommendation: This is an active OB area with a RCRA Subpart X permit pending. Due to the active status of the site, future investigation will be managed under the provisions of the RCRA Corrective Action program.

8.2.9 SWMU #18 — Old Sewage Treatment Plant

Description: The old STP is located south/southwest of the ANAD Administrative Area. The STP was used to treat domestic sewage from 1942 to 1982. It is currently used as a firefighter training area.

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Investigation: Investigations at SWMU #18 were limited to a review of ANAD files and records and a site visit to observe site conditions. No field sampling was conducted for the ESI.

Potential Contamination: None determined by this ESI.

Recommendation: There was insufficient historical data to conclude that SWMU #18 activities (past and present) have had no impact on groundwater. Based on the nature of historical and ongoing activities at SWMU #18, it is recommended that further investigative action be undertaken at this SWMU as a part of the planned RI at the ASA. This investigation should include a review of old facility plans from the date of facility inception to verify the presence or absence of combined sewer lines; monitoring well installation and sampling in and around the trickling filter and oil/water separator; determination of whether or not the fire training area was/is lined, and what materials were burned in it, together with an investigation of potential releases of contaminants from these activities; and any other issues related to the SWMU's historical and current use.

8.2.10 SWMU #26 — North TNT Burial Pit

Description: The North TNT Burial Pit is located near the northern installation boundary. The pit was approximately 50 feet long and 25 feet wide. Reports suggest that wastes containing TNT may have been burned and buried at SWMU #26.

Investigation: Three soil boring samples, one surface soil sample, one sediment sample, and two groundwater samples were used to evaluate the SWMU.

Potential Contamination: Indicators of potential contamination at SWMU #26 include inorganics and VOCs in the soil boring; inorganics in the sediment sample; inorganics in the surface soil sample; and inorganics and nitrate/nitrite in the groundwater samples.

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Recommendation: Due to the lack of subsurface soil samples within the SWMU boundaries, inclusion of this SWMU in the follow-up RI is recommended.

8.2.11 SWMU #27 — South TNT Burial Pit

Description: The South TNT Burial Pit is located approximately 500 feet southeast of the North TNT Burial Pit (SWMU #26). Past activities were the same as at SWMU #26

Investigation: Three soil boring samples, one surface soil sample, and two groundwater samples were collected to evaluate SWMU #27.

Potential Contamination: Indicators of potential contamination detected at SWMU #27 include inorganics and VOCs in the boring samples; lead in the surface soil sample; and inorganics, SVOCs, and nitrate/nitrite in the groundwater samples.

Recommendation: Due to the lack of subsurface soil samples within the SWMU boundaries, inclusion of this SWMU in the follow-up RI is recommended.

8.2.12 SWMU #34 — Chemical Storage Igloos

Description: Forty-one chemical storage igloos in G-block are located within this SWMU. Igloos are used to store obsolete M55 rockets containing nerve agents. The interior of each igloo is regularly monitored to detect any leaks. A RCRA Part B application covering these operations has been submitted.

Investigation: A review of ANAD files and records, and results of previous investigations led to the conclusion that no field investigation was required here.

Potential Contamination: None determined by this ESI.

Recommendation: Monitoring for contaminant releases will continue, ultimately under the RCRA permit. SWMU #34 should not be included in the ASA RI/FS.

8.2.13 SWMU #35 -- Deactivation Furnace

Description: The deactivation furnace was used to deactivate small munitions (less than 600 grains energetic material up to 50 caliber). Particle emissions were collected in a bag house. Remediation of a leaking 1000 gallon diesel tank has occurred at this location. A final report on this remediation has been approved by ADEM. It is expected that operations will start again in 1993; an air emission permit from the State of Alabama and a RCRA Part B permit are pending.

Investigation: Four soil boring samples, three surface soil samples, and one groundwater sample were collected to evaluate SWMU #35.

Potential Contamination: Indicators of potential contamination detected in SWMU #35 include TPHC in the soil boring samples; inorganics and TPHC in the surface soil samples; and inorganics in the groundwater sample.

Recommendation: Due to the detection of TAL metals in high concentrations, inclusion of this SWMU in the follow-up RI is recommended. As per Section VIII (Statutory Compliance) of the FFA, follow-up activities covered by the FFA will achieve compliance with both CERCLA and RCRA remedial action/corrective action requirements, thus fulfilling any RCRA Permit requirements.

8.2.14 SWMU #36 — Drill and Transfer System Site

Description: The drill and transfer system site is where chemical agents were transferred from leaking munitions into one ton containers for safe storage. The SWMU covers about one acre. Transfer of chemicals was conducted within a glove box. Two storage sheds and a metal pavilion are located here.

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Investigation: A review of ANAD files and records, and results of previous investigations disclosed no information suggesting the release of contamination from this site.

Potential Contamination: None determined by this ESI.

Recommendation: No further action. SWMU #36 should not be included in the ASA RI/FS.

8.2.15 SWMU #37 - Vehicle Wash Rack

Description: The Vehicle Wash Rack is located in the western end of Building 45, approximately 1000 feet south of the ASA fence. The two wash bays are currently in use for washing and steam cleaning depot vehicles. Waste waters are collected through floor drains, pumped through an oil/water separator and discharged to the sanitary sewer. Oils are drummed for disposal

Investigation: Six surface soil samples were collected at SWMU #37 in order to evaluate the site. Only three of those are considered relevant to wash rack operation.

Potential Contamination: Indicators of potential contamination detected in the surface soil samples include inorganics, toluene, and SVOCs.

Recommendation: Based upon site history, the detection of organic contamination in surface soil samples, and the lack of groundwater samples, additional investigation of the SWMU is recommended.

8.2.16 Northern Boundary Sites

Description: The Northern Boundary Sites were three streams flowing out of the ASA at the northern boundary.

Investigation: One surface water/sediment sample pair was collected from each stream and analyzed for nitrate/nitrite and explosives. A fourth stream which was to have been sampled was found to be dry, so no samples were collected there.

Potential Contamination: No indicators of potential contamination were detected in the sediment samples. Nitrate/nitrite (not considered to be a "stand-alone" indicator of contamination) was detected in two of the three surface water samples.

Recommendation: Based on the sample results, there is no evidence that explosive contaminants are spreading out of the ASA via surface waters north of the site. No further action is deemed necessary.

8.3 SUMMARY

Completion of this ESI has resulted in an improved characterization of potential contamination at the 15 SWMUs that were the subject of this study. Based on the results of the field investigations, laboratory analysis of environmental samples, and analyses presented in this report, the following 11 SWMUs have been identified as requiring further investigation to confirm and evaluate potential contamination:

- SWMU #5 Sinkhole
- SWMU #8 Acid Disposal Pit
- SWMU #10 TNT Washout Facility
- SWMU #11 TNT Washout Facility Leaching Beds
- SWMU #14 Laundry Waste Leaching Facility
- SWMU #15 Propellant Disposal Facility
- SWMU #18 Old Sewage Treatment Plant
- SWMU #26 North TNT Burial Pits
- SWMU #27 South TNT Burial Pit
- SWMU #35 Deactivation Furnace
- SWMU #37 Vehicle Wash Rack.

Expanded Site Inspection of the Ammunition Storage Area

No further action is recommended at the following SWMUs:

- SWMU #16 Burning Ground (subject to future RCRA Corrective Action)
- SWMU #17 Demolition Pit (subject to future RCRA Corrective Action)
- SWMU #34 Chemical Igloos
- SWMU #36 Drill and Transfer System Site.

SECTION 9

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Appendix A

Aquatic and Terrestrial Species
in the Immediate Vicinity of ANAD

Aquatic Species

Vertebrates

Least lamprey Redfin pickerel Chain pickerel Rainbow shiner Large scale stoneroller Alabama hog choker Mosquito fish Green sunfish Warmouth Bluegill sunfish Redear sunfish Bream Largemouth bass Coldwater darter Carolina sculpin ("banded") various minnows

Invertebrates

May flies
Caddis flies
Stone flies
Oligochaetes (segmented worms)
Crustaceans
Water fleas (cladocera)
Isopods
Decapods (crayfish)
Amphipods
Water boatman
Beetles
Molluscs
Snails

Terrestrial Species

Mammals/Marsupials

Deer Squirrel Rabbit Opossum Raccoon Fox Bobcat

Birds

Turkey Quail Dove Crow

Reptiles

Rat snake

Eastern diamondback rattlesnake Timber rattlesnake Pygmy rattlesnake Water moccasin (cottonmouth) King snake Chicken snake Black snake

Common Grasses

Bermuda Dallis Johnson Lespedeza Lespedeza Sericea

Common Woodland Trees and Shrubs

Longleaf pine
Loblolly pine
Shortleaf pine
Slash pine
Yellow (tulip) poplar
Red (sweet) gum
White oak
Post oak

Eastern red oak Southern red oak Blackface oak Red maple Sycamore

Eastern red cedar

Dogwood
Black gum
Hickory
Black locust
Wild plum
Red bud
Chestnut oak
Virginia pine
Black walnut
Persimmon
Bluejack oak
American elm
Slippery elm
Plum

Plum
Huckleberry
Wild grape
Honeysuckle
Green briar
Crab apple
Wild cherry
Mulberry
Pecan
Blackberry

Appendix B

Field Boring Logs

This Appendix presents field boring logs describing soils acquired in the course of borings that led to completion of well installations. Information acquired from borings that did not result in completed wells is not included in these logs.

Well completion information for well 91B15 is not presented in this Appendix. Examination of field notes indicated that well 91B15 was completed with the following specifications:

- Stainless steel screen from 17 feet 10 feet below ground surface
- Stainless steel riser from 10 feet to zero feet below ground surface
- Stainless steel "stick-up" from zero feet to 2.5 feet above ground surface
- Gravel pack from 17 feet to 7 feet below ground surface
- Bentonite pellets from 7 feet to 5 feet ground surface
- Grout from 5 feet to zero feet below ground surface

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Development

Method

Well Materials Used

Feet of S-foot Riser

Feet of 10-foot Riser 30

Feet of Screen /0

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Bags of Sand 17

Bags of Bentonite Powder 1/2

Buckets of Pellets 31/2

Bags of Cement 6

Bags of Concrete Mix

'le Covers 1

Stick-Up Riser Pipe: 2.5 FT Type of Surface Seal: Mortar SACKCRETE Riser Pipe I.D.: ZIN Type of Riser Pipe: STAINLESS STEEL Borehole Diameter: 10 /2 INI Type of Backfill: Type T Ct + BENTONITE POWDER Depth to Top of Seal: 13.25 FT Type of Seal: 14 IN BENTONITE PELLET Depth to Top of Sand Pack: 20 Fr Depth to Top of Screen: 28 FT -Screen I.D.: ZIN Type of Screen: O.O.O.S.OT STAINLESS Length of Screen: 10 FT Depth to Bottom of Screen: 38 FT

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Drilling Merchod HSA

Development Method

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18.5-20 18.5-20 18.5-20 18.5-20 18.5-20 18.5-20 10VR 6/8, pleater moist to digital moist to di	23-25 Ling, relabely allow 7.5 y R-7/2 months with strong hower 7.5 y Sy, perte, with 20% sound S-10% yeared S-10% yeared S-10% yeared IONE 6/8, platter moist to digitate moist to digitate moist to digitate moist to digitate moist to digitate moist to digitate continued mother continued mother continued mother continued and eliquy retired grand Sound					D+o-61	riptian	1 1			
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		•	23-25	· · · · · · · · · · · · · · · · · · ·		Loss	mal line	and 455			

Project Name ANAD	ESI							
Project Number 35630600								
cation_5WMU	14 THT LAUNDRY							
Boring No. 91813								
Date 7/9/77	•							

Driller ATEC/JEFF

Method HSA 7/2 IN BIT

Development Method

Well	Mat	eri	als	Used

Feet of S-foot Riser 7.5

Feet of 10-foot Riser 10

Feet of Screen 10

Caps. 7

Bags of Sand 3

Bags of Bentonite Powder

Buckets of Pellets 1/4

Bags of Concrete Mix

"ole Covers 1

Stick-Up Riser Pipe: 2.5 Ar

Type of Surface Seal:

Riser Pipe I.D.: ZIN

Type of Riser Pipe: STAINLESS

STEEL

Borehole Diameter: 7/ZIN

Type of Backfill: TYPE II Co

Depth to Top of Seal: 4,5 FT

Type of Seal: BENTONITE PELLETS

Depth to Top of Sand Pack: 9,5 FT

-Screen I.D.: ZIN

Type of Screen: 0,010 Stot STAINLESS

Length of Screen: 10 FT

Depth to Bottom of Screen: 75 FT

Depth to Bottom of Hole: 28 FT

91814/swmu#15

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		oring la			ASK#	•	nu t	15	Berling sea (O)	0	-
	Proposition	35G3CG-C	र प्रस्तुवार (४	umo ,	ATTE AWAD TASK #6			Part 20 8 9/B/4			
	<u> </u>	sursain JECOBS Driver ATEC - Jum Des month 20 660 a 2				892	Completed 20F	GRESS	_		
	Morned Hollow Starn 3/4 In Carna 1100 3 Tainhu Steel					EMU 11.7/	End 17.7/10.2		Locacca Para Wod "O"		
		TOWN SOU CHIEFESTC-18'							Total depth 18		
	त्यस्य प्र भरित । जिलम				Date						
	no.	Dopih la loca	Here per 6 lacker	2/Rec		riptien	let Aud	ed.	Camenta on Flame of boring	Hour Rec:	n Ay gen
	કુવા કા માં	0-51			churt,	PAUEL-10 YR storm, w/gres sandatz, an	gular,	collec	No PROBLEMS ted Soil buring out 5918.141C duplication for	5'1	
•			•		Cheppe crasto	lam-50mm Lymbist C	m	Mitri and W samp water	te, Nitrate, TPH lason Jar Lithola le of So II from Table is Q		
	5918142C	S-10'		30%		Sfr, ch -50%, clar off, to rum thous	Ø		No Programs	1'2	
					Ųψe	ny mud	,	coller same Nito	eted Soil boring slett S91B145 ite,11/4rda	e Bton	Loans
	59181436	- . ·	_	30%	We	BOVE it iv mud	Ø	Collec	No Problems Led Soil bortus Ple # 391B14 Te, Nitrate	30	
		15-18'	_	Ø		ecovery	Ø	1130 any	No Recovery net to Recom soil	er	Rec
					END		<i>fun</i>	1.	it well 91814		/
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				1			• •				

91 R 15 / Swmu#15

	ಮಾಪಾಯ.	Jacobs	Denes	ATFA	TOW DESCRIPTION	1956	07 07	
	ಸಾವಹ ಕೃ	you stem	Craus 1	122 5 to	in bus Scal 570 117/1	10/20 C	1/A	FEB 92
	كتحصيد طرا	UNKW			c-20' 2 Balow		01	
1	، دو مناسب	SAC	C:4 by		Data		1	O'Below St (UO)
	iano Ko.	Contain in	N/A	%/Ka	Decemption	자 자 사 지 지	NOTES CARDINA OF MICH	Rec in Auger
	5 1 1 1 1 1 C	0-51		40%	5/8 410-brajou/gram ce chert, Fand 50 soft, unconsolidated loor sorting climm to 30mm to cabbles augular, meist	Sho i	120No PROBLEMS - (9055ibly pushing race down w/aught the v.little recovery) collected Soil Som S91B1SIC - Nitrite/ 250 ml amber - Mas.	k US
•	(10') 5918152C	5-10'sne 5-91	Zq1		CLIY, U.dk gry, 104R 3/1, wet ~20-207 Chert/Sandatz, <1-40 mm, awallo unconsolidated, public cobbon-sat	۲۱	Jar Sample No Problems - 1240; somple 3,91815 Nitrite, Nitraty TPHO 9,250mamber	2C 11/2'PLC
	1856892	10'-80'		65%	CLAY/Gravel-ylw/bi 104R 5/8 wet, soft 50% churt/sand at augulal, unconsolida Limptone/chirt for pubblic wet	MZI.	- NO PROBLEM	5-3'Rec
	19 FEB 92	19-20'	*	100%	AS ABOUE TO 20'LSD	41	Drilled out sloff of 1911 and driver hale 19-20 with standing in h	mon .
				EN	O OF DRILLIA	6	@ begin of dr. 1/1, we 4'8" below Ste. New wel of the is@ 9' Below St	triling p

TELE BORING LOG PROPERENT HIS COSA

From the 356-306-00 Proper same ANAD

	9161- EWMU#15
Project Name ANAD TRSK#6 Project Number 356306-00/302 poation Swimu#15 pring No. 591814 Date 20 FEB92	Driller ATFC - Jim Planski Drilling Method Hollow Stem auger 3/4"TI Development * Method
Well Materials Used Feat of 2-foot Riser Feet of 5-foot Riser Feet of 10-foot Riser Feet of Screen 10'2" Caps. 3 cops Bags of Sand 3 bag (2001b3) Bags of Bentonite Powder 2 portland Buckets of Pellets 3/4 of 1 bucket Bags of Concrete Mix IS Hole Covers Cup - 3"(u/1"but ofter recewish a) 5' 10'2' 10'2' 10'2' 15'2' 170 18'	Stick-Op Riser Pipe: 2 Type of Surface Seal: Concrete and Porthard Con below Co" Riser Pipe I.D.: 2" Type of Riser Pipe: Stander: Stander: Stander: Stander: TD Type of Backfill: Grout-forthe Community (S70 buntority) Depth to Top of Seal: 2 Type of Seal: Quantity pollution (US) Depth to Top of Screen: 5' who Stander: US Screen I.D.: 2" Type of Screen: Stander:

B

	DRING L		_	7- 77				उक्साम् उक्स	911	316	
Cಯರಾವದ	3563060							720		2	
Merti od		Dunas		EC	Con served	\sim	16.92	Completed	2.1	10-91	_
Crosson of	HOA	CIRTA			图0117/	(تـ٥٪		Proceeds to		D ,a	
rocked pa	DAI	उन्ध क्य	Led		Selon	gre4	ઢક'	Total dept			
maged of	DHT	100.4 24	,		Deta)				
Secreta Secreta	Dereth la	Blows you								Monit	به در
No.	(see	4 izezos	712	D4643	rigidan	Int aug		Passes of her	n Tag	HEYTU	12
Chemical SAMPLE AIBIGIC Sizst-ast	0'-3,5'			STROND WESON AND COMMENTS SOME CHERT SOME O-25-C BLACE C.5'-Z BLACE WESOM AND COMMENTS MEDION	TR 416 ADDY SILT ADY	I,	3.5'-	HARD E	20M	\$ 12 0 19 6 5 5	•
renical Ample 9:-101 1816 JC	81-101		100h	8'-16'- GIE YELL BROWNIF AND 2.5 REO MOI NO SOME DO 18-, L	MOTILED MOTILED MOTILED MOTILED MOTILED YE 4/8 'ST CLAY	0.0	5'-8'. 5'-8'	nand Dr. - Ho sam O. I Ove STE CF C	upide	0.1 in Ances	-

Propert 24	356-3066	6 Prejona :	1470.4	ANAE) JES		3624 == 41E	5 16	
ಯಾವಣ	フモ ケ	Driller	AT	EC			6.9) Caped 2.16	3	
प्रकार	HSA	टासबर र			ENU 117/	4	3.91 Compared 2.16	, - 4/	
Сाल्कान स		Sett dru	led		SZ Below		12/		
لتعروط كح	DAI	C7,4 24		i	Date		20, Loal gate 30	,	
•		-;						Honi	ro Lr
to.	Corta la	licos por liccos	712 104	Deces	riştlez	יין מאם	Camments on situates of bortag	HEYU	L
Chement SAMPLE 14'-15' 7181630	101-151		[00	10'-15' AS AB	SAME	G. \	HOU OLI OUZE COSE	AUGE 151	
Chemical 6Ampa = 17'-181 918164C	151-181		100	HOWEV:	EZ G" SZAVELY EZOM.	0.0	VERY HARD DRILLING - NO SAMPLE 181-401 - CORE	10.1 17.7 10.1	13
EX 9 18 16 20 29 - 20 1 29 - 20 1 29 - 20 1	27,-54, 31-91.2		(00	5 YR Yellow MOTOT GILT W MINOR AND CO MEDITO GRAVEZ SAND	518 tion Red to WET UI SOME CLAY ourse UM AND DOLOMITE L MEDIUM	0.1	VERY HARD DRILLING. SAMPLE ONLY FROM 21-21-5' AND 22-24' HUN 0-1 OVER LENGTH OF CORE		
NO .	→ No s	sample	2		7 7 BARRET		DEILINE 25-301	1	/
•									

Project Name ANAD EST

Project Number 35630600

cation SWMU #16

soring No. 91816

Date 217294

Well Materials Used

Feet of S-foot Riser 5.

Feet of 10-foot Riser 20

Feet of Screen 10

Caps (2) 1 b dgw, 1 ToP

Bags of Sand 8

Bags of Bentonite Powder 7/10

Buckets of Pellets 23/4

Bags of Cement 7

Bags of Concrete Mix 15

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	Stick-Up Riser Pipe: (72.5)
	Type of Surface Seal: CONCRET
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	<u> </u>
7/1/	
	3:00-0:-
	Riser Pipe I.D.: 2"
	Type of Riser Pipe: stainles
	Steel
	Borehole Diameter: 6"
	Type of Backfill: 95% Cor
	5'6 bontouile mig
VA.V	· · · · · · · · · · · · · · · · · · ·
KAK	Á
YA Y	Denth to Tax as a said
29 29	Depth to Top of Seal: 17
	Type of Seal: Bendonite Pellets
	3
72.2	Depth to Top of Sand Pack: 17.5
	Depth to Top of Screen: 231
	Screen I.D.:
	Type of Screen: 0.00 shhokinks
	Length of Screen: 10' Stac)
	10
	Depth to Bottom of Screen: 38
5.25	1
	Depth to Bottom of Hole: 38/35

FILLD	SORING LA	og a	13	17						
							इतियाँ एव			
	3563060					t6	Pa / a 2	Ma / d 2		
Autor H 24 CTAIN				onen	िन्द्र स्थापन		Completed			
	MARICA HSA (COURTS OF A PRINTING OF A PRINTI			***************************************	图(11.7/		לייטנינים וביינו			
					Selore		170 ml depte 25.	5 pr		
ज्यहरूद जर्गाः	in inner	~ 103,4 ph	100,4 pA			16/9	72			
		:7			.*			Konitorio		
Sample No.	Depth in	Blove per 6 izabas	718 Red	Deces	riptien	ler EXU	Cammenta en	ומט נצו		
91817- 509181718 91817- 5.5 AZSO 509181722 91817- 75 = 10.5 HLS D 91817- 14.6	2.5 \$ 5.5 \$ 7.5 7.5 10.5			Some of Stand yellow andre stiff of Some of Stand of Stan	Stopped to plants Standard Standar	P	Dribbed residy & to 5.2 Dribbed residy & to 5.2 Dribbed residy & to 5.2 Dribbed residy water in Borokolo at -3.9 ft. UKB Savery results; Wordford afrom Light dribb chapter Recovered 3. & Itsory 7.5 to 10,5 ft. I'm Fewel is weather roch in place, though this precedure OK by Great Bronghon, Co. Dribbed 10.5 to 15.5 Recovered 5.0 ft sort Recovered 5.0 ft sort			
91817- 146 FE 15.014 LSD SO9181732	15.0 to 15.0 to 15.5			light g dolone frogme Some a	weethord nay (N7) le desirte not, setul 7.5 to fintant		No mason joe sample was collected for 15:0 \$ 15:5 ft in Find (not enough south) Water level -8 ft.			

The state of the s

FELD ?	SORING L	× 2	a,	0 -			A CONTRACTOR OF THE CONTRACTOR	
			7/	BM	Taskoto	and the second s	المن المنافقة المنافق	
Carrie	ATEZ	Driller	0.0	WARD		6	33 Z d 2	
त्रभग्रज्य ति		CIMPA	KIBA	2014 pm	िट्य स्थानस		1 Completed	
<u> ८.०००</u> व		३०॥ टन			Enu 117/		ीळक्टा धन्म	
ंज्यक्त ज्या	, A hardre				Date 02/		Total dryta 75.5	17
		:7				1		
Sample No.	Doyth in loss	Mous per 6 inches	7 s n X 4 G	Decer	ipties	IPT EAG	दश्यासम्बद्धाः १५ स्वीत्रास्थ्यः ११ केवरास्	Montoring
9/B17- 15.5 A 20.5 A L30	15.5 to 20.5			Brown CloyRy Sondy	olay with	\$		אמתו נבנ
	15,900 ps 20.5 ps 25,5 ps TD=	75 ,-	به م	fragno 5 3/40	nts YB ind nd disents SAMPLE		Orilled rasily, no	
	10-	<i>د</i> ی ع	7		-			
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A CONTROL OF THE ACTION OF THE

Project Name ANAD TASE # 6

roject Number 35 6 30 600

cation

Boring No. 9/8/7

Date 02/16/97

Development

Method 9430

Well Materials Used

Feet of 5-foot Riser 5 53
Feet of 10-foot Riser 10 57
Feet of Screen 10 57
Feet of Screen 10 51
Caps hoffm, fro 55
Bags of Sand 3
Bags of Bentonite Powder 9/h
Buckets of Pellets 2 @ 50 lo perh
Bags of Cement 2 @ 94 h
Bags of Concrete Mix
Le Covers 5 fr x 3 min stul
incel 1 le God preferie

Stick-Up Riser Pipe: 2.5 # Type of Surface Seal: Nemrote Riser Pipe I.D.: 2004 (0.174 Type of Riser Pipe: 55 Borehole Diameter: 6 1/2 inches Type of Backfill: coment/hochne 8 galarte / 1 by one (Type II / 5% by weight bentmile) Depth to Top of Seal: 2.57 Type of Seal: ha tonite potats Depth to Top of Sand Pack: 7.5 11 Depth to Top of Screen: 12.5-Screen I.D.: Zinchos (0.17 Type of Screen: 55: 0.010 mal Length of Screen: 10.0 Depth to Bottom of Screen: ZZ.5 Depth to Bottom of Hole: 25.3

Prepost se	35630600	Preject	J F	Over			goant on d	1818				
Coatractor				ANA		ITAS	K6 1 4	ma 1 a d				
Method	HSA	Driller			Date started		3.92 Completed 2	.18.92				
Crowne er		Castage		ð.,	图0117/	(D)	Proceeds level	U				
نعيب المساكن		डेक्स क्त्य	ued		Selow	boq.	31 Total depth	181				
07	ו ו	100.4 pt	1		Deta							
ı		·i						Montor				
Sample No.	Doyth in	liers per disches	712 X44	Desc	ripties]er ZYU	Cammenta en settless of bering	ו אמיין ני				
918181C H'-5'	0' - <u>C</u> 1	\ \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	•	DOWN OF THE STATE OF THE SILE	MOIOT SCIT MED; WE CHERT OLOMITE TO YR CONTENT AND AND AND AND AND AND AND A		NO PROBLEMS ADVANCING BORING HULL O.O. OVER LENGTH OF CORE	IN ACCERS				
1.13.182C	5'-101		50°tu	AS AR AG'-10 GLAY EN GRAY EN GOVER FINE D	ا عرسو	~rde,w	CANPLY OF COSE THUM O'OORE TOATHCINE BORINE HO DEOGRAMS	0. d iss Auccies C 10				

TO DOT BE	3563064	Le majeri	AN.	AD ESI	/TA	ske year of	2
ಂದಾ ದಜ	JE6	Driller	ATEC	Case started			18-43
रसम्ब	HSA	כז אמו ווי	<u>"ג</u> פא ד	ENU 117/		Process level	
प्रकळ्य स		उ०॥ क्या		Selow	prod :		81
অন্তির স	DAI	(C) (A)		Date			<u> </u>
Sample	Doyth la	Mars per	Pen		טמא	C	Yealtoria
No.	(eat			riptien]ar	Comments on	אמני נדו
710,534			10-17-16 MOTON TOLONI	HBOVE 7-7-7 120 FT NA PO BOUND TO LINE TO LI	e	HAED DEILLING HAM OR OVER LENGTH OF CORE	0.6 1'R 106els
NO Sample	15'-18'			mple		drilling Hard	HNY OO IN AUGO

Project Name ANAN EST Toject Number 356-30600 Cation SWMU #17 / Demyshow P.A. Boring No. 91818 Data 2.18.42	Driller ATEC Drilling Method Hellow Stem Augren Development Method
Well Materials Used Fort of A: Mot Riser - 2' Feet of S-foot Riser 0' Feet of 10-foot Riser 0' Feet of Screen 10' Caps 1: M 1 Top Bags of Sentonite Powder 1 Buckets of Pellets 1 Bags of Concrete Mix 15 le Covers Le Covers	Stick-Up Riser Pipe: ① 2.5/ Type of Surface Seal: Concrete Riser Pipe I.D.: Type of Riser Pipe: Stainless Stre! Borehole Diameter: 10 W/ Type of Backfill: Cement/ Bentonic Mix 20:1. on 50/0 bentonic Depth to Top of Seal: 2/ Type of Seal: Bentonic Dellets Depth to Top of Sand Pack: W/ Depth to Top of Screen: 5' Screen I.D.: 2^ Type of Screen: Stainless Steel Length of Screen: 10' Depth to Bottom of Screen: 15'

FIZED ECRING			· ·		व्यक्ति व्य	
		TO AND			<u>~</u>	
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income on R. H. ha	C14 57		1 20202	111/92		
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918A - 5.0 t	6.5	Sime	a 0.8 to	A A	scored 3,6 A	_
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<u> </u>	+ +				7./~	
509181920 6,53	10.0	meto	Tal brownish			
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91619 -		and re	1(25424/8)	·	
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			(>20%).			.
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TASK #6 Driller ATEC. R. Sooth Project Name_ Troject Number_ sation ANAD Demolition Area, down gradied Drilling Method Development Method Stick-Op Riser Pipe: 2.57 Type of Surface Seal: Concette Well Materials Used Feet of Z-foot Riser Feet of 10-foot Riser 10 4 Feet of Screen Riser Pipe I.D.: 2 Mex & Bags of Said Bags of Bentonite Powder 14 16 Type of Riser Pipe: 55 Buckets of Pellets //2 Bags of Cement Bags of Concrete Mix Borehole Diameter: 10/2/2/ le Covers 54 Type of Backfill: Count grout 24 get potable water 3 bass Type II and a 94#/by Depth to Top of Seal: 3.4 Type of Seal: benton to selle Depth to Top of Sand Pack: 5,5 Depth to Top of Screen: 100 -Screen I.D.: Zinok Type of Screen: 57 Length of Screen: 104 Depth to Bottom of Screen: 20.0 Depth to Bottom of Hole: 232

well # 91320 SWMU#26

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	91B20/SWM4#2/
Project Name ANAD TASK #6/ Project Number 356,306.00 / wgs 302 cation Swynu#26 Loring No. 5 91828 Date 21 FEB 92	Driller ATEC -Jim Plinske Drilling Hollow Sternauger 3/4" ID Development Method Method
Feet of S-foot Riser Feet of Socreen JO'4" Caps. 3" 12 Bags of Sand 4 Bags of Bentonite Powder Note Volchay Buckets of Pellets bucket Bags of Concrete Mix "ole Covers Dib'ul 19-20' 30'6'	Above John Stick-Up Riser Pipe: 2'3" Type of Surface Seal: Concrete Sportland commit Riser Pipe I.D.: 2" Type of Riser Pipe: Stombander Borehole Diameter: 7"ID Type of Backfill: Crowd-longua Cament w 5% bentomite Depth to Top of Seal: 7 Type of Seal: Boutmit publit Depth to Top of Sand Pack: 12' Depth to Top of Screen: 17' Screen I.D.: 2" Type of Screen: Stombander C.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o.o

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Project Name ANAN TASL #6 Project Number 35630600 xation doring No. 9/82/ Date 02/24/42	Drilling Method HSA Development Method
	nedice .
Well Materials Used PR 2 Feet of 1-foot Riser 30.0 9 Feet of Screen 30.0 9 Feet of Screen 50.0 8 Caps. Why play f topocap 55 Bags of Sand 4/2 Bags of Bentonite Powder Buckets of Pellets 2/2 (125/h) Bags of Cement Degation Sags of Concrete Mix Vole Covers 3 1 3/ml v/ Inf	Stick-Up Riser Pipe: 3.5 Type of Surface Seal: Cruste Riser Pipe I.D.: 2 pml Type of Riser Pipe: 5.5. Borehole Diameter: 10/2 Type of Backfill: Count q Grant mays : Ryal patto weter bay Type Type of Seal: bantonik by weight Depth to Top of Seal: 19.0 ft Type of Seal: bantonik pullats Depth to Top of Sereen: 29.0 ft Type of Screen: 55.0.010 s/ot Length of Screen: 55.0.10 s/ot Length of Screen: 55.0.10 s/ot Depth to Bottom of Screen: 34.0
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Feet of Screen 10' 0.00310r Caps. 1 end, 1 tep Sags of Sand 2 V1 Bags of Bentonite Powder 3/10 Buckets of Pellets 1/4 Bags of Concrete Mix Riser Pipe I.D.: 2 11 Type of Riser Pipe: stanless Steel	Project Number 35.00 Andrea partial control No. 918.30 Date 9.30.91 Well Materials Used Pret of 2- Foot Pare 10. 20 Foot Pa		
Development Method Stick-Up Riser Pipe: + 2.5' Type of Surface Seal: Coursers Feet of A: Food Riser 6' Feet of Io-foot Riser 10' Feet of Io-foot Riser 10' Feet of Io-foot Riser 10' Responders of Fellers 1/4 Rags of Sentonite Pewder 4/10 Rags of Cenent 3 Rags of Cenent 3 Rags of Concrete Mix What Covers 1 shed shark-up Depth to Top of Sackfill: 45'6 Type of Seal: Rechard pelle 6 Depth to Top of Seal: 15' Type of Screen: 15' Type of Screen: 15' Type of Screen: 15' Type of Screen: 15' Type of Screen: 15' Type of Screen: 15' Type of Screen: 10' Depth to Top of Screen: 15' Length of Screen: 10' Length	Development Method Stick-Up Riser Pipe: + 2.5' Type of Surface Seal: Converter Weil Materials Used Feet of 2. Foot Piser 5' Feet of 5. Foot Riser 5' Feet of 5. Foot Riser 10' Feet of 5. Foot Riser 10' Feet of 5. Foot Riser 10' Feet of 5. Foot Riser 10' Feet of 5. Foot Riser 10' Feet of 5. Foot Riser 10' Feet of 5. Foot Riser 10' Feet of 5. Foot Riser 10' Riser Pipe I.D.: 1'' Type of Riser Pipe: Stanker Stock Borehole Diameter: 6'Vu'' Type of Seakfill: 45'Vo Cament 5'' Depth to Top of Sand Pack: 10' Depth to Top of Sand Pack: 10' Depth to Top of Sand Pack: 10' Depth to Top of Screen: 15' Screen I.D.: 1'' Type of Screen: Shanker Shed Length of Screen: 10' Depth to Top of Screen: 15' Depth to Top of Screen: 15' Depth to Top of Screen: 15' Screen I.D.: 1'' Pre of Screen: 10' Depth to Top of Screen: 15' Depth to Top of Screen: 15'	Project Number 35630600 cation \$WMU # 27	Driling
Well Materials Used Foot of 2 Fact Elser 6' Feet of 10-foot Riser 10'	Mell Materials Used Feet of 2. Face Riser 10. Feet of 2. Face Riser 10. Feet of 3. Face Riser 10. Feet of 3. Face Riser 10. Feet of 5. Face Riser 10. Feet of 5. Face Riser 10. Feet of 5. Face Riser 10. Feet of 5. Face Riser 10. Riser Fipe I.D.: 1 11 Type of Riser Pipe: stander 10. Type of Riser Pipe: stander 10. Feet of 5. Face Riser Pipe: stander 10. Figure 1.D.: 2 11 Type of Riser Pipe: stander 10. Figure 1.D.: 2 11 Figure 1.D.: 3 12 Figure 1.D.:	Date 8.99.67	— Method Hollow Stem Auger Development
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Depth to Bottom of Hole: 28		Feet of 2-Foot River- 21	Stick-Up Riser Pipe: + 2.51 Type of Surface Seal: Concerte Type of Riser Pipe: stankes Steel Borehole Diameter: 6 V4" Type of Backfill: 48% Cament 5% Books.k Mik Depth to Top of Seal: 5 Type of Seal: Remark pelleto Depth to Top of Seand Pack: 10 Depth to Top of Screen: 15 Screen I.D.: 2 Type of Screen: Shanks Steel Length of Screen: 10

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Boring No. 9	373		
Date 7 //11	9.5		

Drilling HSA 10/2 IN BIT

Development
Method

Well Materials Used

Feet of 5-foot Riser 2,5.
Feet of 10-foot Riser 30
Feet of Screen 10
Caps 7
Bags of Sand 73/4
Buckets of Bentonite Powder 3/4
Buckets of Pellets 3
Bags of Cement 7
Bags of Concrete Mix
ple Covers 1

Stick-Op Riser Pipe: 2.5ft

Type of Surface Seal: Mortun

F Surkrett

Riser Pipe I.D.: 71N

Type of Riser Pipe: Standa:

Stal

Borehole Diameter: 10/21N

Type of Backfill: Type I Pottleri

Restricts Pourdes

Depth to Top of Seal: 20 FT Type of Seal: 14 IN BENTONIFE PELLET

Depth to Top of Sand Pack: 25 FT
Depth to Top of Screen: 30 FT

-Screen I.D.: ZIN,

Type of Screen: 0.010 Star Staintes:

Length of Screen: 10 FT

Depth to Bottom of Screen: 40 FT

Depth to Bottom of Hole: 40.5 FT

Prepare PP	35630400	Project :	MILL	ANAD /ES	7	Ferrise AIB	
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Project Name ANAD EST Project Number 356-30600 cation Swmw 35 uring No. 91824 Date 3.13.92	Driller ATEC Drilling Method Hallow Stem Augen Development Method
Well Materials Used Fect of 2 - Rot Riser	Riser Pipe I.D.: 2 Type of Surface Seal: Concrete Type of Riser Pipe: Standless Steel Borehole Diameter: 7 1/4 Type of Backfill: Cement Bentonite MIX AO: 1 PATIO or 50/0 Bentonite Depth to Top of Seal: 23.5' Type of Seal: Bentonite Pellets/weth Depth to Top of Searen: 34/ Screen I.D.: 2" Type of Screen: Standless Steel 6.00". Length of Screen: 10' Depth to Botton of Screen: 44 Depth to Botton of Screen: 44 Depth to Botton of Hole: 50%

Appendix C Geophysical Survey Reports by UXB and Technos

NOTE: All work done by UXB was conducted in the ASA.

NOTE: The work conducted by Technos was located in the ASA and the SIA. A single report was issued for both areas. To serve as an appendix to the ESI Report, pages that contain only discussion of SIA related investigations have been deleted. Figures relate to SIA SWMUs have been removed.

PROJECT REPORT FOR UXO SERVICES PROVIDED BY

UXB INTERNATIONAL, INC.

14800 CONFERENCE CENTER DRIVE, SUITE 100
CHANTILLY, VIRGINIA 22021
(703) 803-8904

ANNISTON ARMY DEPOT ACTIVITY
ANNISTON, ALABAMA

FOR

JACOBS ENGINEERING GROUP, INC. 1234 NATIONAL PRESS BUILDING 529 14TH STREET, N. W. WASHINGTON, D.C. 20045 3.2 Task 2 - Field analysis of soil samples for TNT and RDX

Field analysis of soil samples was performed from January 3 to February 10, 1992, by UXB Technicians Daniel Stephens and David Pollard. Both of these technicians were certified to perform TNT and RDX analysis through Spectralytix Environmental & Analytical Services using the USATHAMA approved field methods. Copies of their training certificates are included in Appendix (B) along with the test results.

3.3 Task 3 - Bore hole geophysics - UXB Technician Daniel Isbell performed down hole monitoring for metallic contacts in the auger path of proposed well sites at SWMU 16 and SWMU 17. He also provided safety briefs to the drill crews, UXO safety escort services, and demonstrated the Foerster Ferex Ordnance Locator in the surface sweep and underwater mode for USATHSMA visitors.

APPENDIX A SCOPE OF WORK

1.0 INTRODUCTION

This project report is submitted by UXB International, Inc., to Jacobs Engineering Group, Inc., at the completion of UXO services provided at Annistion Army Depot, Anniston, Alabama from December 9, 1991 through February 20, 1992.

1.1 APPENDICES

The scope of work is included as Appendix (A) and is summarized in section 2.0. Appendix (B) contains the results of the field analysis for TNT and RDX. Appendix (C) is the daily work log submitted by the UXB Project Leader.

2.0 SCOPE OF WORK

The Scope of Work is included in this report as Appendix (A) and is summarized here. The project was divided into the following three tasks for UXO services:

Task 1 - Well Site and Access Clearance - UXB technicians cleared paths fifteen feet wide and 2 feet deep from the nearest established roadway to the proposed locations of all wells. A 75 foot radius was cleared around each well site to a wells. Wooden stakes four feet in height with orange depth of 2 feet. Wooden stakes four feet in height with orange flagging tape were used to mark the cleared paths and well sites for safe maneuvering of the drill rigs.

Task 2 - Field Analysis of Soil Samples for TNT and RDX - Soil samples from proposed well sites in areas suspected of containing a reactive amount of explosive compounds will be analyzed using the USATHAMA Field Method for determining TNT and RDX concentrations. Samples from the surface and depths of 2.5, RDX concentrations. Samples from the surface and depths of 2.5, concentration of over 10 % reactive compounds are found, the well site will be considered an explosive hazard area.

Task 3 - Bore Hole Geophysics - One UXB technician will monitor ahead of the auger using a Foerster Ferex Ordnance Locator to check for metallic contacts. If a significant metallic contact is discovered, the well site will re abandoned and relocated a minimum of ten feet.

3.0 PERFORMANCE OF FIELD WORK

All field work has been completed without any UXO related incidents having occured.

3.1 Task 1 - Well Site and Access Clearance

Well site and access clearance was performed from December 9 - 17, 1991. The following UXB personnel were on site:

The following is a list of UXO items recovered by UXB personnel during the performance of site clearance operations:

SWMU 17 (Demo Pit)

10 Dec 91

Þ

20 mm HE, unfuzed, 1 ea 75 mm HE, unfuzed, 1 ea

Approximately 150 pounds of inert ordnance scrap (mostly fragments) of 20 mm and 75 mm projectiles, 4.2" mortar, 105 mm, 155 mm, 8" projectiles, 2.36" and 3.5" rockets, 100 lb and 750 lb bombs.

11, 12 Dec 91

20 mm HE, fuzed, 7 ea 2.75" Fleshette rocket warheads, 6 ea 75 mm HE, unfuzed, 2 ea 105 mm WP, unfuzed, 3 ea 105 mm HE, unfuzed, 1 ea Various sized bomb boosters, 4 ea

Approximately 600 pounds of inert ordnance scrap (mostly fragments) consisting of the same variety as found on the 10th of December.

SWMU 16 (Burning Ground)

14 Dec 91

Approximately 150 pounds of ordnance scrap consisting of mostly 20 mm, 75 mm, 105 mm, and various size bomb fragments. No explosive filled ordnance items were found this day.

SCOPE OF WORK, REVISION 1 SUBCONTRACT NO. 05-G302-S-91-0001

The possibility of finding unexploded ordnance (UXO) or explosives is a possibility at SWMU's Nos. 5, 8, 10, 11, 14, 16, 17, 27 and 35. Therefore, a USATHAMA approved, UXO contractor with assistance from local Explosive Ordinance Disposal (EOD) team members and ANAD Safety office will coordinate the field work effort in these areas. The areas will be surface cleared of UXO and explosives prior to any geological work, soil boring or drilling activities.

During soil boring where UXO are suspected, the drill bit will be retracted at 2 to 4 feet intervals and the UXO technician, using MK-26 Ordnance Locator, will search ahead of the drill bit for metallic contacts. If suspicious contact is discovered, the site will be abandoned and moved at least 10 feet. Search will continue until the drill has reached at least 25 feet in depth. During test pitting where UXO are suspected, the UXO technician, using a MK-26 Ordnance Locator, will search ahead of the backhoe bucket at 2 to 4 feet intervals. If UXO are encountered, the UXO contractor will mark the item's location and contact the EOD Unit at ANAD and arrange for the item to be removed or rendered safe.

The location of all identified or suspected UXO's will be marked, and reported to the local ANAD EOD Unit. The UXO contractor will assist in developing a "render safe" plan for all UXO.

Soils contaminated with explosives are thought to be a factor at SWMU's #14 Laundry Waste Leaching Facility, #16 Burning Ground, #17 Demolition Pit, #27 TNT Burial Pits and #35 DEACT Furnace. No Field investigation work will be conducted at these sites without direct supervision of the ANAD Safety office and EOD team.

The following steps will be followed to ensure the safety of all personnel on the well drilling site and/or soil boring:

- a. A clear team consisting of two UXO Technicians will conduct a surface visual sweep of the proposed route the drilling rig will take from the road to the drilling site and clear a path fifteen feet wide. They will maintain a line of sight with each other at all times and maintain communication with other filed crew members and the command post.
- b. If unexploded ordnance is encountered, they will attempt to find a clear route around the hazardous item. If this cannot be done, because of rough terrain or an abundance of hazardous items in the area, unexploded ordnance that can be moved remotely will be placed outside the area to be cleared.
- c. If unexploded ordnance encountered is not safe to be moved, the UXO project leaded will mark the item's location and contact the ANAD Army EOD, at 235-7541 and arrange for the item to be blown in place.

- d. Using marking stakes and lines as necessary UXB/UXO Technicians will mark the outer perimeter of the cleared area.
- e. Two UXO Technicians will then conduct a geophysical survey of this area, using a Ferex locator, to located metallic items to a minimum depth of three feet. All metallic contacts will be marked with stakes and an alternate clear path for the drilling rig will be used.
- f. If an alternate path cannot be found, the marked locations will be hand excavated by UXO technicians to a maximum depth of three feet and buried ordnance will be handled in accordance with (b) and (c) above.
- g. During well installation, the drill bit will be retracted every 4 feet and one UXO Technician, using the Ferex locator, will search ahead of the drill bit for metallic contacts. If a significant metallic contact is discovered, the drilling site will be abandoned and moved at least 10 feet. This procedure will continue until the drill has reached a depth of a least 20 feet.
- h. As necessary, the Subcontractor shall perform a field screening chemical procedure for RDX and TNT compounds as prescribed by USATHAMA.

The UXO Project Supervisor Safety Officer, and Technicians have the authority and responsibility to immediately stop work and take corrective action when an unsafe situation is encountered. Standard EOD procedures will be employed in the investigation and handling of ordnance and other hazardous items until it is determined that no explosive hazard exists.

A command post will be established prior to conduction of any field operations. All UXO Technicians operating away from the command post will have radio communications with the command post and the command post will have communication, via portable telephone, with the local fire, ambulance and police departments and the ANAD EOD, team.

APPENDIX B

RESULTS OF

FIELD ANALYSIS FOR THT AND RDX

TESTS RESULTS

JANUARY 8, 1992

JANUARY 8, 1992	-
TNT CALIBRATION TESTS	RDX CALIBRATION TESTS
SOLUTION CONC. ABSORBANCE 0 ug/g .003 au 1.0 ug/g .021 au 2.0 ug/g .053 au 5.0 ug/g .106 au 10.0 ug/g .225 au 20.0 ug/g .461 au	SOLUTION CONC. ABSORBANCE 0 ug/g .005 au 1.0 ug/g .016 au 2.0 ug/g .042 au 5.0 ug/g .080 au 10.0 ug/g .156 au 20.0 ug/g .307 au
base response factor (rf) TNT	
.225au/10.0 ug/g = .023	.156au/10.0 ug/g = .016
TNT SOIL SPIKE TESTS	RDX SOIL SPIKE TESTS
SPIKE CONC. ABSORBANCE 0.0 ug/g .000 1.0 ug/g .017 2.0 ug/g .036 5.0 ug/g .103 10.0 ug/g .246 20.0 ug/g .456	SPIKE CONC. ABSORBANCE 0.0 ug/g .004 1.0 ug/g .019 2.0 ug/g .036 5.0 ug/g .078 10.0 ug/g .173 20.0 ug/g .345
JANUARY 9, 1992	TO SECUL TO SECUL
INI CUDIDICITION TOO	RDX CALIBRATION TEST
CONC. ABSORBANCE 10.0 ug/g .223 rf = .022	CONC. ABSORBANCE 10.0 ug/g .143 rf = .014
TNT SOIL SPIKE	RDX SOIL SPIKES
CONC ABSORBANCE 0.0 ug/g .002 2.0 ug/g .038	CONC ABSORBANCE 0.0 ug/g .002 2.0 ug/g .031
WELL SITE 91B12-1	
DEPTH TNT surface .000/.022 = na 2.5 feet .001/.022 = na 5.0 feet .000/.022 = na 7.5 feet .002/.022 = na 10.0 feet .000/.022 = na refusal, moved well site	.014/.014 = na

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SITE 91B12-2
 surface .119/.022 = 5.4 \text{ ug/g} .070/.014 = 5 \text{ug/g}
Program Manager moved site due to surface results

      Sile 91812-3

      surface
      .015/.022 = na
      .020/.014 = 1.4 ug/g

      2.5 feet
      .002/.022 = na
      .010/.014 = na

      5.0 feet
      .002/.022 = na
      .001/.014 = na

      7.5 feet
      .007/.022 = na
      .004/.014 = na

      10.0 feet
      .000/.022 = na
      .005/.014 = na

      12.5 feet
      .000/.022 = na
      .003/.014 = na

      15.0 feet
      .000/.022 = na
      .007/.014 = na

 SITE 91B12-3
 SITE 91B11-1
 surface .007/.022 = na .034/.014 = 2.4 ug/g
 JANUARY 13 1992
                                               RDX CALIBRATION TEST CONC ABSORBANCE
 CONC ABSORBANCE
 10.0 ug/g .224 rf = .022 10.0 ug/g .128
                                                                                rf = .013
                                                  RDX SOIL SPIKES
 TNT SOIL SPIKES
                                                  CONC ABSORBANCE
  CONC ABSORBANCE
                                                  0.0 \, \text{ug/g} \, .004
  0.0 ug/g .001
                                                   1.0 ug/g .017
  1.0 ug/g .031
  SITE 91B18-1
                                                  RDX
                      TNT
  DEPTH
                                                   .023/.013 = 1.8 \text{ ug/g}
                     .002/.022 = na
  surface
  SITE 91B18-2
                      .003/.022 = na
                                                   .010/.013 = na
  surface
  SITE 91B19-1
                                                   .018/.013 = 1.4 \text{ ug/g}
                     .002/.022 = na
  surface
  SITE 91B19-2
  surface .001/.022 = na
                                                   .023/.013 = 1.8 \text{ ug/g}
  JANUARY 15 1992
                                                   RDX CALIBRATION TEST
  TNT CALIBRATION TEST
                                                   CONC ABSORBANCE
  CONC ABSORBANCE
                                                                               rf = .014
                               rf = .021 10.0 ug/g .136
  10.0 ug/g .213
                                                   RDX SOIL SPIKES
  TNT SOIL SPIKES
                                                   0.0 \, \text{ug/g} .002
   0.0 ug/g .000
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1.0 ug/g

1.0 ug/g .020

.015

SITE 91B11-1 TNT RDX DEPTH 2.5 feet 5.0 7.5 10.0 refusal, moved well SITE 91B11-2 surface .009/.021 = na .002/.014 = narefusal, moved well JANUARY 16,1992 RDX CALIBRATION TNT CALIBRATION CONC ABSORBANCE CONC ABSORBANCE CONC ABSORBANCE 10.0 ug/g .231 rf = .023 10.0 ug/g .133 rf = .013 RDX SOIL SPIKES TNT SOIL SPIKES CONC ABSORBANCE CONC ABSORBANCE 0.0 ug/g .0030.0 ug/g .000 $1.0 \, \text{ug/g} \, .014$ 1.0 ug/g .021 SITE 91B11-3 DEPTH TNT RDX surface .049/.023 = 2.1 ug/g .001/.013 = na2.5 feet .004/.023 = na .002/.013 = naJANUARY 21, 1992 RDX CALIBRATION CONC ABSORBANCE CONC ABSORBANCE CONC ABSORBANCE 10.0 ug/g .246 rf = .025 10.0 ug/g .129 rf = .013 RDX SOIL SPIKES TNT SOIL SPIKES CONC ABSORBANCE 0.0 ug/g .002 CONC ABSORBANCE 0.0 ug/g .000 1.0 ug/g .011 1.0 ug/g .032 SITE 91B11-3 DEPTH TNT RDX
5.0 feet .008/.025 = na .004/.013 = na
7.5 feet .002/.025 = na .005/.013 = na
10.0 feet .002/.025 = na .004/.013 = na refusal, moved well

SITE 91B11-4 surface .000/.025 = na .003/.013 = na

SITE 91B11-4

JANUARY 22, 1992

OMIONIL EL, EVE	•
TNT CALIBRATION TEST CONC ABSORBANCE 10.0 ug/g .217 rf = .022	RDX CALIBRATION TEST CONC ABSORBANCE 10.0 ug/g .126 rf = .013
TNT SOIL SPIKES CONC ABSORBANCE 0.0 ug/g .002 1.0 ug/g .019	RDX SOIL SPIKES CONC ABSORBANCE 0.0 ug/g .001 1.0 ug/g .011
SITE 91B11-4	
DEPTH TNT 2.5 feet .006/.022 = na 5.0 feet .002/.022 = na 7.5 feet .000/.022 = na 10.0 feet .000/.022 = na 12.5 feet .016/.022 = na 15.0 feet .006/.022 = na	RDX .004/.013 = na .003/.013 = na .002/.013 = na .003/.013 = na .004/.013 = na .003/.013 = na
FEBRUARY 1, 1992	
TNT CALIBRATION TEST CONC ABSORBANCE 10.0 ug/g .217 rf = .022	RDX CALIBRATION TEST CONC ABSORBANCE 10.0 ug/g .128 rf = .013
TNT SOIL SPIKES CONC ABSORBANCE 0.0 ug/g .001 1.0 ug/g .024	RDX SOIL SPIKES CONC ABSORBANCE 0.0 ug/g .002 1.0 ug/g .019
SITE 91B11-5	
surface .003/.022 = na 2.5 feet .003/.022 = na 5.0 feet .005/.022 = na 7.5 feet .005/.022 = na 10.0 feet .000/.022 = na	.008/.013 = na .004/.013 = na
FEBRUARY 2, 1992	
TNT CALIBRATION TEST CONC ABSORBANCE 10.0 ug/g .219 rf = .022	RDX CALIBRATION TEST CONC ABSORBANCE 10.0 ug/g .126 rf = .013
TNT SOIL SPIKES CONC ABSORBANCE 0.0 ug/g .002 1.0 ug/g .025	RDX SOIL SPIKES CONC ABSORBANCE 0.0 ug/g .003 1.0 ug/g .016

SITE 91B11-5

12.5 feet .000/.022 = na .006/.013 = na 15.0 feet .000/.022 = na .007/.013 = na

FEBRUARY 8, 1992

TNT CALIBRATION TEST
CONC ABSORBANCE
10.0 ug/g .216 rf = .022

RDX CALIBRATION TEST
CONC ABSORBANCE
10.0 ug/g .132 rf = .013

TNT SOIL SPIKES
CONC ABSORBANCE
0.0 ug/g .002
1.0 ug/g .019

RDX SOIL SPIKES
CONC ABSORBANCE
0.0 ug/g .003
1.0 ug/g .017

SITE 91B13

DEPTH	$\mathtt{TN}\mathbf{T}$	RDX
surface	.005/.022 = na	.007/.013 = na
2.5 feet	.003/.022 = na	.002/.013 = na
5.0 feet	.001/.022 = na	.004/.013 = na
7.5 feet	.003/.022 = na	.004/.013 = na
10.0 feet	.001/.022 = na	.003/.013 = na
12.5 feet	.000/.022 = na	.002/.013 = na
15.0 feet	.001/.022 = na	.002/.013 = na

Certificate Of Training

SPECTRALYTIX ENVIRONMENTAL & ANALYTICAL SERVICES

This Certificate Stipulates That On This 20 Day Of December, 1991,

Daniel Stephens

Has been instructed in the field method for determination of 246 TNT and RDX in soil using USATHAMA methodology.

Instructor

Certificate Of Training

SPECTRALYTIX ENVIRONMENTAL & ANALYTICAL SERVICES

This Certificate Stipulates That On This 30. Day Of Decombe, 1991,

David Pollard

Has been instructed in the field method for determination of 246 TNT and RDX in soil using USATHAMA methodology.

Instructor

APPENDIX C
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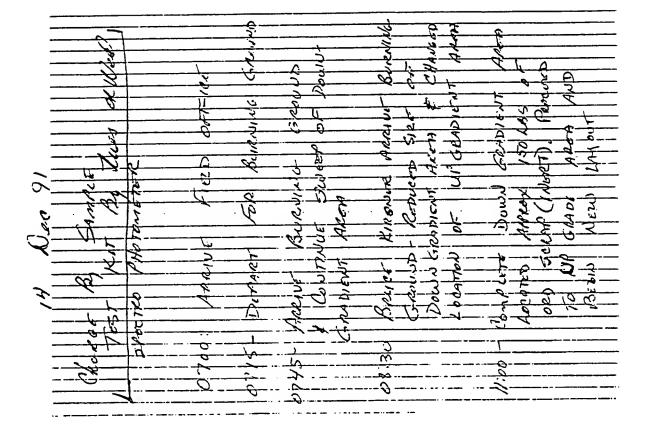
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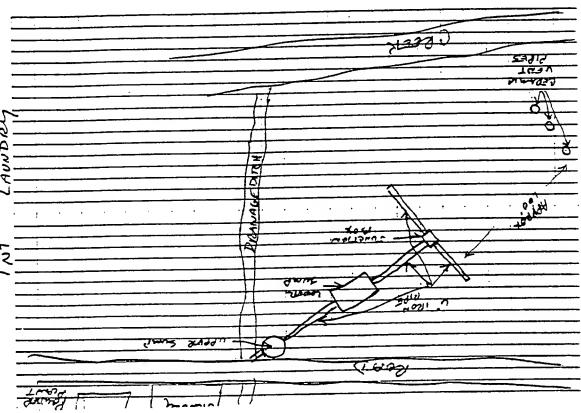
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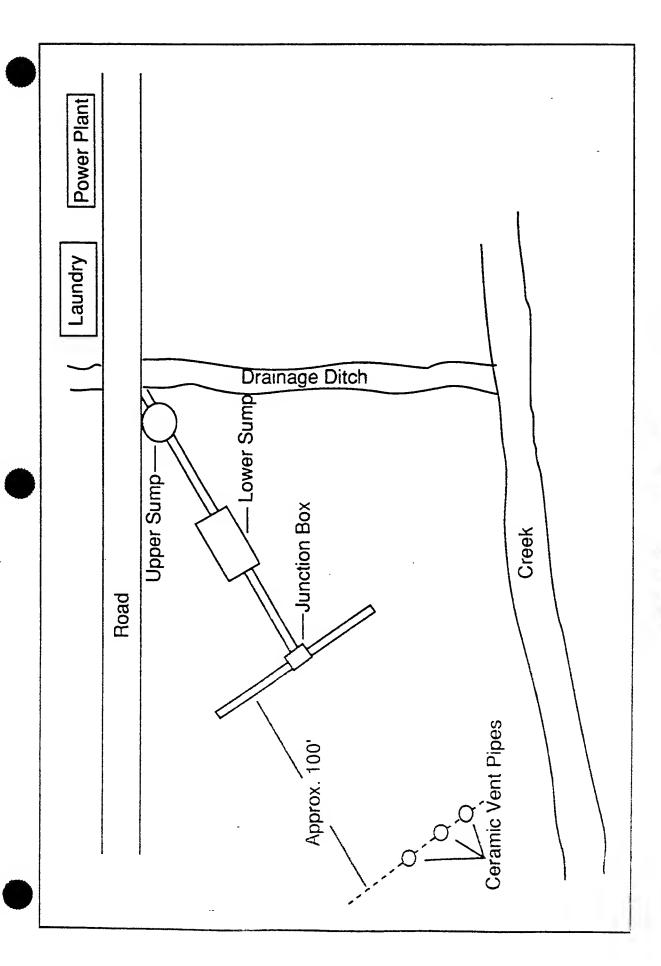
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TNT LAUNDRY

. 2

UXB International, Inc. 14800 Conference Center Drive Suite 100 Chantilly, Virginia 22021-3806

ATTN: Tom Yancey

SUBJECT: Daily Log of RDX and TNT Soil Contamination Tests at the Anniston Army Depot

GENERAL

Field tests following the USATHAMA approved methods were conducted to determine the soil concentrations of TNT and RDX. The tests were conducted to ensure that monitoring well drilling operations would not encounter dangerous levels of explosives. Explosive levels of 10% or greater are considered hazardous.

Explosive contamination testing was conducted at three prospective well sites located in the vicinity of the TNT wash out facility. Tests were conducted on the surface and at 2.5 foot intervals to a depth of 15 feet. Tests were also conducted on two sites at the demolition range. Only surface tests were required in the demolition range area.

TESTING CERTIFICATION

TNT and RDX soil contamination tests were conducted in accordance with the Method Documentation USATHAMA (1987) Format.

SAFETY

No incidents or accidents occurred during the explosive field testing operations. Personnel wore eye protection and gloves during testing operations and the field laboratory was kept well ventilated.

MOBILIZATION (January 2, 1992)

UXB International personnel traveled to Oxford, Alabama on January 2, 1992. From January 3th to the 7th UXB personnel purchased equipment and chemicals, procured rental equipment and assembled a field laboratory in a rented, high cube truck.

DEMOBILIZATION (February 9 - 10, 1992)

UXB personnel cleaned and packed equipment, returned rental equipment and departed the Anniston Army Depot area.

OPERATIONS

Field testing operations were conducted in accordance with the Method Documentation USATHAMA (1987) Format, Certification, Field Method for the Determination of 246TNT and RDX in Soil.

RESULTS

The certified reporting limits for the field testing operations were:

RDX not less than 1.4 ug/g and not greater than 20 ug/g without diluting.

TNT not less than 1.11 ug/g and not greater than 22.3 ug/g without diluting.

UXB tested no soil sample which required dilution. Most soil sample test results were less than the lower certified reporting limit. See Appendix B for specific site test results.

24 February 1992

UXB International, Inc. 14800 Conference Center Drive Suite 100 Chantilly, Virginia 22021-3806

Re. After Action Report; Anniston Army Depot, Anniston, Alabama, Phase III, UXB 505.01, 14-20 Feb 92.

To: Mr. Tom Yancey, Project Manager

The purpose of this phase of field operations was to provide down hole monitoring and detection to support Jacobs Engineering and ATEC Associates during drilling operations required to install ground water sampling wells.

Areas of interest were explosives and propellant burning area and ordnance demolition areas located on Anniston Army Depot, Anniston, Alabama. Selected sites were established and surface and subsurface sweeps conducted by UXB personnel in December 1991. Two drilling locations were identified in each area, one up gradient and one down gradient. Access routes, equipment and decon areas were visually swept during this phase of the operation.

The operation was overseen by Mr. Bruce Kirchner, Jacobs Engineering Group, Project Manager.

Site visitors were: Mr. Jerald Broughton, USATHAMA, Vicksburg, MS. 14-18 Feb 92
Ms. Vivian Graham, USATHAMA, Aberdeen, MD. 19 Feb 92
Ms. Leslie Ware, Anniston Army Depot, Environmental Management Division, 19 Feb 92
Mr. Terry Briggs, Jacobs Engineering Group,

Corporate Health and Safety Officer, 17-19 Feb 92

SUMMARY OF OPERATION-14 Feb 92, 0530-1730

Travel to Anniston Army Depot from Huntsville, AL. Rental van inspected and registered for access to installation and work areas. Reported in to Jacobs office. Escorted Mr. Gardner, Jacobs, and Mr. Broughton, USATHAMA, to burning area and reviewed the sweeps completed in the selected locations in December. Identified the access routes and site locations staked out previously. Moved to demolition area and conducted the same tour. Met with drilling crews and briefed them on hazards associated with the areas. Escorted crew into the down gradient site in the burning area, visually reswept the areas needed for equipment and decon sites. Standing by on site for second drilling crew to be escorted to up gradient site. Second crew arrived and were escorted to site, decision was made to set up drill rig next morning. Returned to office, verified start time for next days operations, returned to motel.

SUMMARY OF OPERATION-15 Feb 92, 0630-1030

Travel to site, met drilling crew, drizzling rain with forcast to increase. Drill crew sunk rig in soft ground while attempting to move onto drill site. Paining harder with thunder storms moving in on location. Drill rig recovered and moved to more solid area, decision made by Jacobs and USATHAMA representatives to relocate drilling site. Drill rig moved on site. Decision made to suspend operations for safety reasons due to weather. Returned to office for start time for next days operations, returned to motel.

SUMMARY OF OPERATION-16 Feb 92, 0630-1230

Travel to site, both drilling crews to begin operations. Up gradient crew first to 4 foot level, no indications of any item to preclude operations detected with the MK-26. Second drill crew to 4 foot mark, same results at that location. Core sample at first site pulled, sample revealed undisturbed soils below the 4 foot level, further down hole monitoring waived by USATHAMA due to sample and land use. Second drill crew pulling core sampler, results same, down hole again waived by USATHAMA. Standing by on site for requirement to relocate drill sites. Both wells at water level by 18-23 feet. No further UXB support required for this days operations. Returned to office, drill crews to complete wells next day and decon rigs, no UXB support required for next days operations. Advised to call office for start up time for next drilling. Returned to motel.

SUMMARY OF OPERATION-17 Feb 92, No time Logged

Contacted Jacobs office 1645, drilling operation to resume next morning.

SUMMARY OF OPERATION-18 Feb 92, 0630-1730

Travel to site, drilling to start at up gradient site of the ordnance demolition area, second rig not available for operations at this time. Down hole monitor revealed no indications of any items to preclude continued drilling operations. Soil sampler shows undisturbed soils on 8 foot core, further down hole monitoring waived by USATHAMA on site. Standing by on site for requirement to relocate drilling site. Second drilling crew arrived with all-terrain rig to be used in well located at furtherest end of demolition area. Escorted crew into site on foot, advised them of potential hazards and visually swept location for rig to be set up and equipment and decon pads to be established. Equipment and rig to be moved on site today, drilling on site tomorrow to start after site visitors arrive to observe operation. Drilling complete on current well, no further UXB support required. Returned to office, briefed by Mr. Kirchner on next days visitors, verified start time on site, returned to motel.

SUMMARY OF OPERATION-19 Feb 92, 0630-1630 _

Travel to office, check status of previous days well, over boring required to set well, all completed. Verified visitors to be on drilling site and checked start time. Travel to site, stand by to escort visitors and monitor drill operation set up. Visitors arrived and requested photos of MK-26 set up and operated for surface sweep. Broke down detector from bore hole mode to set up for sweep and demonstrated operation. Reconfigured back to bore hole mode and escorted visitors to drill site. Provided briefing on previous area surface and subsurface sweep operation and site hazard briefing. Drilling to 4 foot level and auger removed for down hole, no reading to indicate requirement to relocate. Drilling resumed to 8 foot and monitoring was repeated. Core sample could not definately verify area not disturbed at 8 foot level. Core sampler pulled at 12 feet. Soils at 10-12 foot depth not disturbed, further down hole checks waived by Jacobs and USATHAMA. Standing by on site for possible requirement to relocate drill site. Visitors departed. Water at 20 feet. No further requirement for UXB. Returned to office, advised to check in next morning to verify well status. Returned to motel.

SUMMARY OF OPERATION-20 Feb 92, 0700-1500

Travel to office, verified well status, good well. Out brief with Mr. Kirchner, Jacobs Project Manager. Contacted UXB, Mr. Yancey not available until after 1145, advised office that project was complete andwould contact Mr. Yancey from Huntsville around 1300. Returned to motel, cleaned and packed equipment and checked out. Stopped at South Trust Bank and collected wire transfer funds and departed to Huntsville. Arrive Huntsville, contacted Mr. Yancey, advised on project status. He requested immediate shipment of MK-26 via Delta Airlines to Baltimore. Inspected and sealed unit and transported to airport for shipment. Contacted Mr. Yancey with flight number and arrival time. Returned to town, had rental van washed and fuelled for return to Avis. Rental turned in, accounting ledger completed and closed out, mission completed.

OBSERVATIONS/COMMENTS

Personnel, supplies and equipment adequate. Site plans and briefing excellent. Coordination with prime contractor and other subcontractors good, operating repor good. No accidents or injuries involving any UXB personnel or as the result of any UXB operation.

DANIEL R. ISBELI



FINAL REPORT

Beoonysical Surveys at anniston Army Depot anniston, Alabama

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Table 2. Summary of EM Conductivity Values

Figure 1. Anniston Army Depot Location Map

Figure 2. Site Location Map

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Figure 30. Line Compactivity College The or entitle of

Signature of magnetometer Data from SWMD 6

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Figure 5a. Site Map of SWMU 8

Figure 5b. Survey Grid Map of SWMU 8A

Figure 5c. Survey Grid Map of SWMU 8B

Figure 5d. EM Conductivity Contour Map of SWMU 8A

Figure 5e. EM Conductivity Contour Map of SWMU 8B

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Figure 8a. Site Map of SWMU 16

Figure 8b. Survey Grid Map of SWMU 16U

Figure 8c. Survey Grid Map of SWMU 16D

Figure 8d. EM Conductivity Contour Map of SWMU 16U

Figure 8e. EM Conductivity Contour Map of SWMU 16D

Figure 9a. Site Map of SWMU 17

Figure 9b. Survey Grid Map of SWMU 17U

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Figure 9e. EM Conductivity Contour Map of SWMU 17D

Figure 10a. Site map of SWMU 26

Figure 10b. Survey Grid Map of SWMU 26

Figure 10c. EM Conductivity Contour Map of SWMU 26

Figure 10d. Example of Radar Data from SWMU 26

Figure 11a. Site Map of SWMU 27

Figure 11b. Survey Grid Map of SWMU 27

Figure 11c. EM Conductivity Contour Map of SWMU 27

PURPOSE AND SCOPE

This report provides documentation of the geophysical survey work done by Technos, Inc. under subcontract to Jacobs Engineering Group, Inc. Monitoring Program at Anniston Army Depot (Figure 1). The surface geophysical surveys provided by Technos include the electromagnetic (EM31), ground penetrating radar (radar), and magnetic methods.

sites were surveyed, which included:

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- o SWMU 8 Acid Disposal Pit
- O Carelett hypochlorite Burial Pit
- O ANVIO 13 Acid Chemical Waste Fit
- o SWMU 16 Burning Ground
- o SWMU 17 Demolition Pit
- o SWMU 26 North TNT Burial Pit
- SWMU 27 South TNT Burial Pit

Coordination with the various team members (Jacobs Engineering Group, Inc., UXB and Bailey Engineering, surveyors) was a necessary part of this project. In addition, security clearance, site safety training, and blood tests were also required. Technos, Inc. also provided brush clearance of survey lines and survey grid layout at some sites.

Access to some sites were limited due to being restricted areas. Sites 8, 16, 17, 26 and 27 were located within the security area which closed at 5:00 PM each day.

Access at the burn area (Site 16) were limited when materials were being burned. Site 8 was located within the Chemical Limited Area and required special safety training and blood tests. Access to site 8 also required a security guard escort at all times.

A total of 20 days were spent on site providing geophysical services at these nine sites.

TECHNICAL APPROACH

Three surface geophysical methods were available on-site for this work; electromagnetics (EM) ground penetrating radar (Radar), and magnetometer.

ELECTROMAGNETICS (EM)

General

The electromagnetic (EM) method measures electrical conductivity of subsurface conductivity in millimhos/meter (millisiemens/meter). Electrical conductivity is a function of the type of soil and rock, its porosity and the fluids which fill the pore spaces.

The method is applicable to the assessment of natural hydrogeologic conditions. Natural variations in subsurface conductivity may be caused by changes in basic soil or rock types, thickness of soil and rock layers, moisture content, and depth to water table. The specific conductance of the pore fluids often dominates the measurement. Because the specific conductance of fluids in pore spaces can dominate the measurements, detection and mapping of contaminant plumes can often be accomplished using the EM method. In addition to evaluation of natural hydrogeologic conditions and mapping of contaminant plumes, some of the electromagnetic instrumentation can be used to locate trench boundaries, buried wastes and drum, and metallic utility lines.

A further detailed description of the EM method is included in Appendix A.

Site Specific

The EM method was the primary geophysical tool used for this project and was used to assess general subsurface soil conditions, locate boundaries of burial or disposal pits and evaluate conditions at drill sites.

An EM31 was used in this work. The EM31 instrument measures to a depth of about 18 feet based upon criteria defined by the manufacture. The response of the EM31 is non-linear, and asomtotic with depth. Seventy percent of the response is coming from the upper 18 feet. When the instrument is carried at hip height, values are reduced by 12% (McNeill, 1980; Appendix A). If highly conductive conditions occur deeper than 18 feet, they can significantly add to the conductivity values measured.

The EM was used as the primary site investigation tool because it provides a rapid means of measurement. With lines spaced 10 feet apart it provides nearly 100% site coverage. It also provides a first approximation for assessing uncontaminated background conditions versus those with elevated specific conductance (or total dissolved solids) due to the presence of inorganics and provides a means of assessing the presence of buried metals.

An EM31 with a Digital Data Acquisition System (DAS) was used for this work. Samples were obtained at a 1 second interval as the EM31 was walked along the survey line. This method of data acquisition produces essentially continuous EM data. Marks were placed upon the EM data as each station mark was passed. The process of marking survey grid locations on the data at intervals eliminates any cumulative positioning errors along each survey line.

Both in-phase (metal) and out-of-phase (conductivity) data was recorded. The digital data was transferred from the DAS to a lap-top field computer and the data was contoured using Surfer.

The default parameters within the "Surfer" program were found to be satisfactory for use in the gridding and contouring routine. The EM contour data was used to provide the initial assessment of site conditions and to plan any further work. EM contour maps of each site are included.

GROUND PENETRATING RADAR

General

Ground penetrating radar uses high frequency electromagnetic waves (from less than 100 MHz to slightly more than 1,000 MHz) to acquire subsurface information. Energy is radiated downward into the ground from a transmitter and is reflected back to a receiving antenna. Reflections of the radar wave occur whenever there is a change in the dielectric constant and/or electrical conductivity between two materials. Changes in conductivity and in dielectric properties are associated with natural geologic and/or hydrogeologic conditions and buried utilities and wastes. The reflected signals are recorded and produce a continuous cross-section or profile of shallow subsurface conditions. The picture-like radar record allows for preliminary field analysis of radar data.

Depth of penetration of the radar wave is highly site-specific. Penetration depth is limited by attenuation due to the higher electrical conductivity, dielectric losses and/or scattering of subsurface materials. Generally, radar penetration is greater in coarser, dry, sandy soils or massive rock, and less penetration is obtained in wet, fine grained

clayey (conductive) soils. While radar penetration in soil and rock to more than 100 feet has been reported, penetration of 15 to 30 feet is more typical. In silts and clays, penetration may be limited to a few feet or less.

Radar has the highest resolution of all of the surface geophysical methods. Vertical resolution of radar data can range from less than an inch to several feet depending upon the depth and the electromagnetic wave frequency used.

A further description of the radar method is included in Appendix B.

Site Specific

Radar was use on this project to assess general subsurface soil conditions and locate boundaries of burial or disposal pits.

A GSSI SIR System 8 was used to acquire radar data with an 80 MHz antenna. The radar antenna was towed by hand over the site. Data was recorded real-time on a graphic recorder. Marks were placed upon the radar record as each station mark was passed. The process of marking survey grid locations on the data at intervals eliminates any cumulative positioning errors along each survey line.

The radar system range was set at 200 nanoseconds, providing a maximum depth of 40 feet (using 5 nanoseconds/ft two-way travel-time). The use of 5 nanoseconds/ft is an approximation in converting the time scale to depth, since depth calibration to onsite soils was not made. Based upon a travel time of 5 nanoseconds/foot, the maximum depth of radar penetration on site was about 25 feet (Figure 7d). The minimum depth of radar penetration on site was about 6 feet.

Interpretation of the radar data was done from the field records. Profile data from selected radar lines (at sites where radar was run) are included to illustrate site conditions.

MAGNETOMETER

General

A magnetometer measures the intensity of the earth's magnetic field. The primary application of magnetic measurements at hazardous waste sites is in detecting buried drums, tanks, pipes, and other ferrous metals. A magnetometer will only respond to ferrous metals (iron and steel) and will not detect nonferrous metals.

Gradient measurements have a distinct advantage over total field measurements. They are insensitive to natural changes in the earth's magnetic field and minimize most cultural effects. Because the response of a gradiometer is the difference of two total field measurements, it responds only to the local gradient. Under ideal conditions, a single drum can be readily detected at depths up to about 10 feet with a gradient magnetometer.

A further description of the magnetometer method is included in Appendix C.

Site Specific

A Magnetometer was used on this project to assist in locating boundaries of burial or disposal pits and in interpretation of EM anomalies.

A Forester Ferex 4.021 Fluxgate gradiometer was used for the magnetometer surveys (similar to the one used by UXB for their work). The magnetometer range was set to ± 30 full scale deflection which has been found to be a reasonable sensitivity for such work. This scale provides an output of ± 228 gammas/foot.

The survey was run with the probe 3 feet off the ground to minimize the influence of small ferrous scrap metals often found at the surface. Data was recorded on an analog strip chart recorder so that a real time record was available as the survey was run. Marks were placed upon the strip-chart record as each station mark was passed. The process of marking survey grid locations on the data at intervals eliminates any cumulative errors along each survey line.

Profile data from selected radar lines (at sites where mag was run) are included to illustrate site conditions.

GENERAL SEQUENCE OF WORK

The team members for this specific work were Technos, Inc. for surface geophysics, UXB for unexploded ordnance clearance, and Bailey Engineering for brushing and survey grid layout. Bruce Kirchner of Jacobs Engineering Group, Inc., provided on site direction.

If a site required unexploded ordinance clearance, the work plan specified that UXB would clear the site first, then the surveyors would layout a survey grid for the geophysical work and then Technos would carry out the geophysical survey(s). At sites that did not require unexploded ordinance clearance, the surveyors would layout

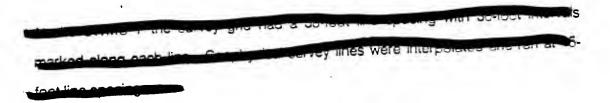
a survey grid for the geophysical work and then Technos would carry out the geophysical survey(s). However, in a number of cases, Technos provided brush clearance and laid out the survey grid because the surveyors were behind schedule.

In all cases an EM31 conductivity survey was run before any radar or magnetometer surveys. Radar and/or magnetometer was then selectively used to assess boundaries of disposal and disturbed soil conditions or the presence of buried ferrous metals.

SURVEY GRIDS

At sites SWMU, 26, 27, 8, 16 upgradient and downgradient, 17 downgradient, the survey grids consisted of 10-foot line spacing with 20-foot intervals marked along each survey line.

At sites SWMU, 1, and 17 upgradient, the survey grid was flagged on every other line (20-foot line spacing) but geophysical data was obtained at 10-foot line spacing by interpolation.



The survey grid was oriented according to site geometry with survey lines being parallel or perpendicular to a fence, road or other cultural feature when possible. In some cases, the UXB corner stakes were used to orient the survey grid for geophysical work.

The origin (0,0) of the survey grid was generally located at the southwest corner of each grid. The (0,0) station was marked with a flag, surveyors tape, and paint so that it can be readily relocated. The (0,0) station was also referenced to some cultural feature when possible. We recommend that Jacobs Engineering Group, Inc. have the surveyors locate the 0,0 station at each site so that the survey grid can be reestablished at a later date if necessary.

Geophysical surveys were run along each survey line (10 or 15 feet apart). The survey lines were run in a direction such that they would be perpendicular to a pit if an elongated pit was suspected. No perpendicular survey lines were run as a routine part of each survey but selected lines were run at some sites to aid interpretation of the data.

The EM31 measurements were started about 10 feet before the survey grid and extended about 10 feet beyond the survey grid for contouring purposes. Therefore, the survey grid maps and EM contour maps of the EM31 data extend slightly beyond the survey grid on both ends.

The survey grid dimensions are given for each site in the text. The first number is the baseline length and the second number is the line length of the survey lines (i.e. 130 by 80 feet).

SITE DESCRIPTIONS AND RESULTS

The following are the descriptions of each site along with the surface geophysical results. Figure 2 shows the map of the Anniston Depot with the general location of the individual sites. Table 1 lists the sites along with the objective(s) of the geophysical work and summarizes the work done at each site. Table 2 shows the maximum range and typical electrical conductivities at each site as well as off-site background conductivities to aid in assessing background versus contaminated conditions.

Site maps (from the Jacobs Engineering Group Work Plan) are included for each site. Site maps provided in the Jacobs Engineering Group Work Plan are not necessarily to scale. Site locations and orientation on these maps may be approximate. A survey grid map and an EM conductivity contour map are also included for each site. Profile data from selected radar and magnetometer lines (at sites where they were run) are included to illustrate site conditions.

CHARLE MALE TO THE PARTY OF THE

Site Pescription

This site is related in the Industrial Area of the Depot (Figure 3a). The site is described as a rectangular pit approximately 50 feet by 110 feet, where sodium-filled engine valves where disposed on it is a heavily wooded area can some thick cudzoo growth at the northern edge of the site.

The site was marked by far warning signs and there we obvious indications of trenching with true area marked by the signs. These areas of trenching contained war from recent rains. The surface contained scattered metal and trash labris

summary

The site characterized by generally elevated conductivities access the entire site.

This is supported the reconnaissance EM measurements made indicating lower conductivities off-site. It is included that this entire area has been filled and built-up using construction debris and high conductivity fill material.

An obvious linear trend of EM conditivity anomalies seen at this site. A burial pit probably lies along the axis of the EM anomalies. It may extend up to 200 feet wide and 540 feet long and is generally supported by radar and to a less extent by magnetic data the outline of this pit is shown in Figure 4c.

SWMU 8 - ACID DISPOSAL PIT

Site Description

This site is located in the northeast section of the Depot in a restricted Chemical Limited Access area, between C and G blocks (Figure 5a). This area has been identified as a disposal area for acids. It is reported to contain heavy metals, explosive compounds, volatile and semi-volatile organics possibly in-cased in a concrete vault.

Objective of Geophysical Work

The objective at this site was to map the boundaries of the pit or concrete vault. An EM31 survey was run to meet these objectives.

The location of this site was not obvious and considerable time was spent looking for the site. A wooded area west and north of storage igloo #C-809 was determined to be the most likely area identified on Figure 5a based upon the roads and fences in the

area. This site is identified as 8A. A north-south creek with steep banks dissects this site, which caused a 30 foot gap in the data.

Since there was considerable uncertainty in the location of the disposal area a second large area to the north of igloo #C-809 was also surveyed at Bruce Kirchner's request. This site was identified as 8B (identified by B. Kirchner based upon USATHAMA reports).

Reconnaissance EM31 and magnetometer surveys were run over areas 8A and 8B as well as around the perimeter of the bauxite ore pile to the west. The purpose of this reconnaissance information was to check these areas prior to acquiring detail data. No obvious EM or magnetometer anomalies were found. However, sites 8A and 8B were surveyed as identified.

Survey Grids

SITE 8A (JACOBS ENGINEERING GROUP, INC. WORK PLAN SITE)

A 200-foot by 320-foot survey grid was set up by the surveying crew. The survey grid had 10-foot line spacings and was marked at 20-foot intervals along each survey line. The origin (0,0) is located in the southwest corner of the grid. The survey lines were run in an approximately north to south direction (Figure 5b). There is a 30 foot gap which was not surveyed, because of a creek running south to north, through the site.

SITE 8B

An 420 foot by 180 foot survey grid was set up at site B by the surveyors with the help of Technos and Bruce Kirchner. The survey line had a 10-foot line spacing and 20foot intervals along each survey line. The origin (0, 0) is located in the southwest corner of the grid. The survey lines were run in a east to west direction (Figure 5c).

Results

FM - AREA 8A

The EM conductivity contour map (Figure 5d) shows typical conductivity values of about 4.8 to 5.5 mmhos/meter across the site, (background conductivity values of less than 10 mmhos/m are found throughout the Anniston Army Depot). Two very subtle features are identified in the EM data. A linear feature of slightly lower conductivity extends from the western border toward the center of the site between Lines 0 to 70 and centered at about Station 130. Another small localized area of low conductivity is located along Line 200 at Station 295.

These areas are not associated with an obvious in-phase response. Therefore they are likely natural changes in conductivity.

EM - AREA 8B

The EM conductivity contour map (Figure 5e) shows typical conductivity values of about 5 to 7 mmhos/meter across the site, (background conductivity values of less than 10 mmhos/m are found throughout the Anniston Army Depot). There are two features identified in the conductivity map at this site. A very distinct linear trend running east to west across the site along Line 370. This feature is characterized by a change in conductivity from about 6 mmhos/m to the south to about 9 mmhos/m to the north. The conductivities are uniform on both sides of this feature. There are no obvious surface features which can account for this feature.

The second feature is a higher conductivity zone in the northeast corner of the site. The center of this high conductivity area is located between Lines 290 and 430 and between Station 160 to 190. It should be noted that survey lines in this area stopped

at the base of the berm which rises to a paved road. Therefore, this high conductivity does not appear to be associated with the road.

Summary

Based on the conductivity contour maps in Figures 5D and 5E, it appears that there is no burial pit or cement vault within the two areas surveyed. The two anomalous features seen at site SA are very subtle in nature and may likely be due to natural variations in conductivity. The two anomalous features seen at site 8B are distinct. Since the linear trend is so obvious it appears to be man-made, however, the exact cause of this feature is unknown.

UXB did not do any UXO clearance at this site.

SWMU 9 - CALCIUM HYDOOH -

Site Description

This lite is located approximately 700 feet west of the sewage treatment plant and approximately 500 feet southwest of the vehicle test track (Figure 6a). The site is bounded on the west was chain-link fence and on the east by a parage area with tanks and other equipment. This site was totally covered with tanks cudzoo growth. A bulldozer was brought in to clear the tre before gridding was done. The surface soils at this site were very soft and wet.

This site is thought to consist a pit which contains approximally 40,000 pounds of calcium hypochlorite. In addition, nearby SWMUs have contaminated soils and groundwate containing solvents, sludges and metals.

and rater data along the four radar lines.

MAGNETOMET

An example of the internetic data is shown in Figure 7e. In general the magnetic data shows the presence of the siderable ferrous modal over the area surveyed. However, between Lines 0 and 40 the magnetic data indicates an area with very few ferrous targets. There is a concentration of magnetic anomalies within and surrounding the pit defined by the EM data.

Summary

A clear pit is defined by the 10 mmhos/m conductivity sontour. Selected radar data and magnetic data also indicate a pit, but with slightly larger boundaries than that shown by the EM data.

UXB did not do any UXO clearance at this site.

SWMU 16 - BURNING GROUND

Site Description

This site is located about one kilometer north of Block L (Figure 8a). This location is about 1 kilometer north and 1.3 kilometers west of the TNT Washout Facility. It consists of an open, flat area within a small valley. Several burning trays are evenly spaced and situated within the Burning Ground Area. A storage area is located at the north-end and a large metal cage is located at the south-end of the burning ground area.

Objective of Geophysical Work

The objectives at this site was to survey 2 proposed drill sites (one upgradient and one downgradient of the actual pit area). An EM31 survey was run to meet these objectives.

Survey Grids

UPGRADIENT SITE 16U

A 190-foot by 140-foot survey grid was set up by the Technos field crew. The survey grid had 10-foot line spacings and was marked at 20-foot intervals along each survey line. The survey grid origin (0,0) is located in the southwest corner of the grid. The survey lines were run in an approximately north to south direction (Figure 8b).

A creek along the western edge of the grid runs in a northwesterly direction, cutting short some of the grid line on the west side.

DOWNGRADIENT SITE 16D

A 40-foot x 200-foot survey grid was set up by Technos with a 10-foot line spacing and 20-foot intervals along each survey line. The survey grid origin (0,0) is located in the southwest corner of the grid. The survey lines were run in a north to south direction(Figure 8c).

A creek runs a few feet from the western boundary of the grid. The lines west of the dirt road were run along a slightly wooded area.

Results

UPGRADIENT SITE 16U

The EM conductivity contour map of the upgradient area (Figure 8d) shows typical conductivity values of about 6 to 9 mmhos/meter, (background conductivity values of less than 10 mmhos/m are found throughout the Anniston Army Depot). There is a uniform increase in conductivities to the northwest. One EM anomaly was identified in this data centered along Line 110 at about Station 100. This anomaly also has an inphase response and is likely due to buried metal.

This site was surveyed and cleared by UXB using a magnetometer.

DOWNGRADIENT SITE 16D

The EM conductivity contour map of the downgradient area (Figure 8e) shows typical conductivity values of about 10 to 11 mmhos/meter, (background conductivity values of less than 10 mmhos/m are found throughout the Anniston Army Depot). Conductivity values are generally elevated at this site with a slight increase in conductivities in the southwestern corner of the site. These generally higher conductivities across the site may be associated with the drainage ditch along the eastern edge of the site and the creek along the western edge of the site. The higher conductivities in the southwest corner appear to be directly associated with a ditch which runs across that area. No unusual conditions are seen in the EM data.

This site was surveyed and cleared by UXB using a magnetometer.

SWMU 17 - DEMOLITION PIT

Site Description

This site is located 1.3 kilometers due north of the burning ground (SWMU 16) in the northwest section of the depot (Figure 9a). This area has been identified as a demolition pit. This site is said to contain heavy metals, explosive compounds and organics.

Objective of Geophysical Work

The objectives at this site was to survey 2 proposed drill sites prior to drilling (one upgradient and one downgradient of the actual pit area). An EM31 survey was run to meet these objectives.

Survey Grids

UPGRADIENT SITE 17U

A 80-foot by 180-foot survey grid was set up by the Technos field crew. The survey grid had 20-foot line spacings and was marked at 20-foot intervals along each survey line. Geophysical data was obtained at 10-foot line spacing by interpolation. The upgradient survey grid origin (0,0) is located in the southwest corner of the grid. The survey lines were run in an approximately north to south direction (Figure 9b).

This site is bounded on the west by a paved road and on the east by a steep hill. At the northern boundary of the site is a storage area containing pallets and metal containers.

DOWNGRADIENT SITE 17D

A 110-foot x 200-foot survey grid was set up by the surveyors and Technos. The grid consisted of 10-foot line spacing and 20-foot intervals along each line. The survey

grid origin (0,0) is located in the southwest corner of the grid. The survey lines were run in a north to south direction (Figure 9c).

This is a wooded site with heavy undergrowth, which is bounded on the northwest by a creek and on the southeast by a cleared area.

Results

UPGRADIENT SITE 17U

The EM conductivity contour map of the upgradient area (Figure 9d) shows typical conductivity values of about 4 to 6 mmhos/meter. Background conductivity values of less than 10 mmhos/m are found throughout Anniston Army Depot. In general, the values are quite low over most of the site with no unusual features except in the extreme northwestern and northeastern portion of the site. In the northwestern portion of the site along Line 0 at Station 190, a small area of high conductivity occurs. This feature is not associated with an in-phase response. In the northeastern portion of the site along Line 90 at Station 180, a small area of low conductivity occurs. This feature is associated with an in-phase response indicating the presence of metal. Both of these targets may be due to the storage area along the northern boundary of this site.

This site was survey and cleared by UXB using a magnetometer. Some unexploded ordinance was found by UXB at this site.

DOWNGRADIENT SITE 17D

The EM conductivity contour map of the downgradient area (Figure 9e) shows typical conductivity values of about 4 to 6 mmhos/meter, (background conductivity values of less than 10 mmhos/m are found throughout the Anniston Army Depot). Conductivity

values generally increase toward the north and then become lower, especially in the northeastern portion of the site. No obvious EM anomalies are identified in this area.

Two in-phase anomalies have been detected. One along Line 60 at about Station 90 and another at Line 90 at about Station 190. The latter feature correlates with a local area of lower conductivities.

This site was survey and cleared by UXB using a magnetometer. Numerous unexploded ordinance was found by UXB at this site.

SWMU 26 - NORTH THT BURIAL PIT

Site Description

This site is located in the north-central section of the depot, about 0.5 kilometer north of the west end of G Block (Figure 10a). This site is marked by four warning signs. A dirt road runs east to west along the southern boundary of the site. Short pine trees occupy the center of the site. It is bounded and contains tall pine trees on the north, east and west.

This area has been identified as the North TNT burial pit. The pit is said to contain heavy metals, explosive or ordnance compounds, volatile and semi-volatile organics.

Objective of Geophysical Work

The objective at this site was to map pit boundaries. An EM31 survey was run to meet this objective. A single radar line was also run at this site.

Survey Grid

A 200-foot by 200-foot survey grid was set up by the surveying crew. The survey grid had 10-foot line spacings and was marked at 20-foot intervals along each survey line. The origin (0,0) is located in the southwest corner of the grid. The survey lines were run in an approximately north to south direction (Figure 10b).

Results

EM

The EM conductivity contour map (Figure 10c) shows typical conductivity values of about 9 to 12 mmhos/meter, (background conductivity values of less than 10 mmhos/m are found throughout the Anniston Army Depot). In general the conductivity values are quite uniform over this site, increasing to the northeast. A distinct low conductivity anomaly occurs along Line 100 and 110 between about Stations 40 to 90. This feature is associated with a large in-phase response between about Station 40 to 120.

RADAR

A single radar traverse was run along Line 110 in order to cross over the EM anomaly. The radar data (Figure 10d) shows the boundary of the pit from about Station 40 to 90, which agrees quite well with the EM contour data in Figure 10c.

Summary

A clear anomaly is defined by the EM conductivity, EM in-phase, and radar data. The pit is bounded by Lines 90 to 120 and Stations 40 to 120.

UXB did not do UXO clearance at this site.

SWMU 27 - SOUTH THT BURIAL PIT

Site Description

This site is located in the north-central section of the depot, about 0.5 kilometer north of the west end of G Block (Figure 11a). This site is marked by four metal warning signs. A dirt road runs along the eastern boundary of the site and a trail on the northern boundary.

This area has been identified as the South TNT burial pit. The pit is said to contain heavy metals, explosive or ordnance compounds, volatile and semi-volatile organics.

Objective of Geophysical Work

The objective at this site was to map pit boundaries. An EM31 survey was run to meet this objective.

Survey Grid

An 150-foot by 160-foot survey grid was set up by surveying crew. The survey grid had 10-foot line spacing and was marked at 20-foot intervals along each survey line. The origin (0,0) is located in the southwest corner of the grid. The survey lines were run in an approximately east to west direction (Figure 11b).

Results

The EM conductivity contour map (Figure 11c) shows typical conductivity values around 8 mmhos/meter, (background conductivity values of less than 10 mmhos/m are found throughout the Anniston Army Depot). The conductivity values throughout the site are quite uniform. A distinct low conductivity area occurs toward the center of the site, consisting of two separate anomalies. One anomaly is centered along Line

80 at about Station 90. The other anomaly is centered along Line 90 at about Station 130. Both of these features are also associated with a large in-phase response indicating the presence of buried metal.

Summary

A clear anomaly is defined by the EM conductivity and the EM in-phase data. The pit is bounded by Lines 70 to 100 and Stations 80 to 140. It is not clear whether the two anomalies are separate or part of the same pit.

UXB did not do UXO clearance at this site.

REFERENCES

Jacobs Engineering Group, Inc., September 1991. Work Plan, Remedial Investigation Feasibility Study Southeast Industrial Area.

Jacobs Engineering Group, Inc., September 1991. Expanded Site Inspection, Ammunition Storage Area.

TABLE 1
SUMMARY OF WORK DONE

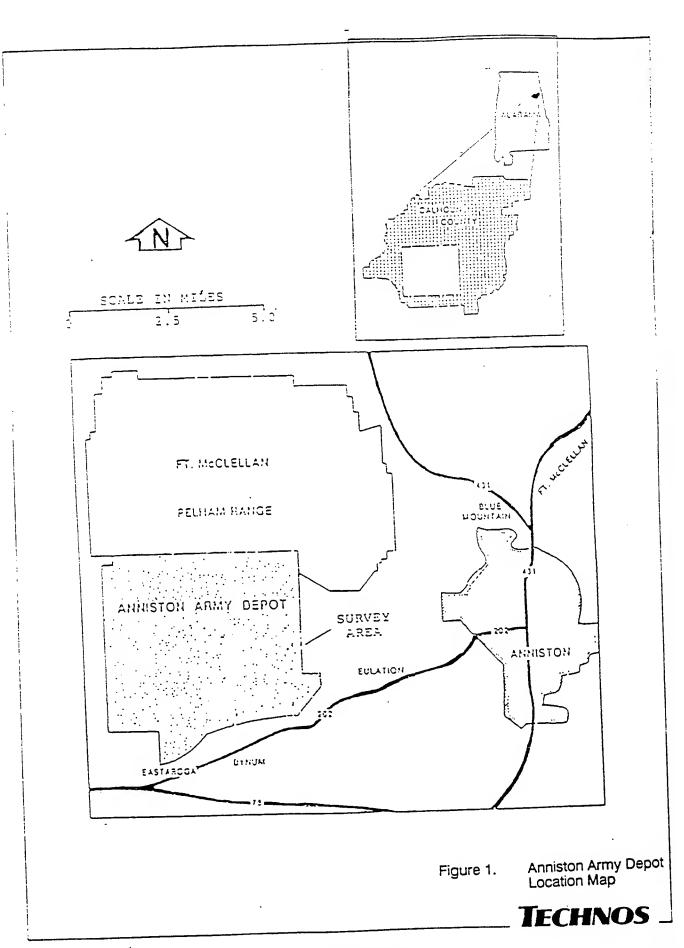
SWMU #	UXB Cleared Site	OB Drill Site Survey	JECTIVE Map Boundaries	EM31	MAG	RADAR
2	1	A STATE OF THE STA	X			
2-0-11-1			***	X	-	
8 A			X	×	Recon. only	
8 B			X	×	Recon. only	
q			to to	X	(2 lines)	(3 lines)
10				X	X	11.1
16 Ungradient	X	×		X		
16 - Upgradient16 - Downgradient	×	X		×		
17 - Upgradient	X	X		. X		
17 - Downgradient		X		×		
26			×	X		X (1 line)
27			×	×		

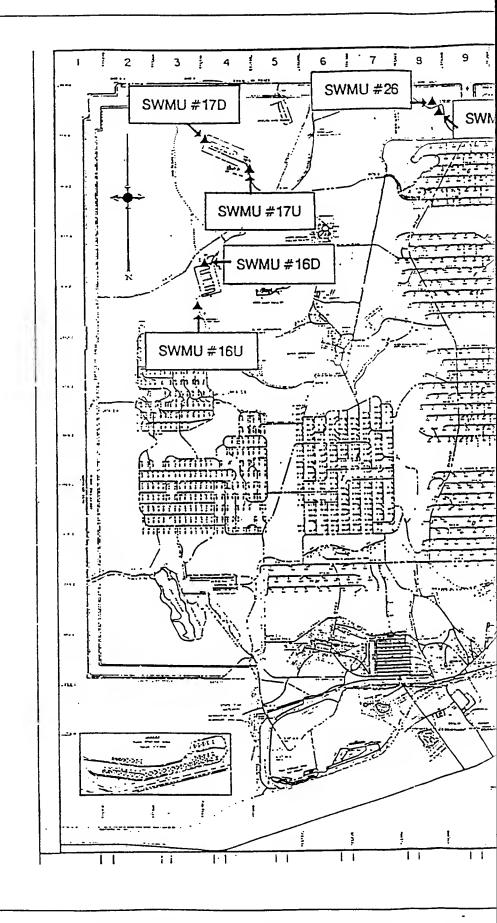
TABLE 2
SUMMARY OF EM CONDUCTIVITY VALUES

SWMU	Range of EM Conductivity Values (mmhos/m) ¹	On-Site "Typical" Conductivity Values (mmhos/m) ²	Off-Site "Background" Conductivity Values (mmhos/m)	
	₹ U - 2 0	The second of the second		
8A 8B	< 0 · 8 4 · 23	4.8 - 5.5 5 - 7		
	< 0.00		6 - 8 Cut	
16 - Upgradient 16 - Downgradient	3 - 15 5 - 15	6-9 10-11		
17 - Upgradient 17 - Downgradient 26	0 - 7 < 0 - 8 < 0 - 18	4 - 6 4 - 6 9 - 12		
27	<0 - 19	8		

Maximum range of EM values from Surfer DAT File. Note that contour maps may not show complete range due to contour intervals selected.

On-site "typical" conductivity values are those which represent the best estimate of on-site "background" values or are generally the lower conductivity values found at the site.





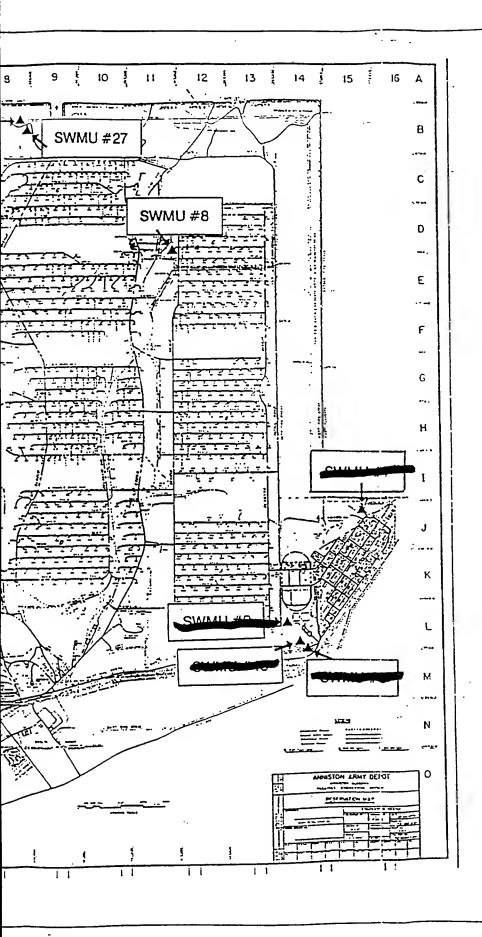
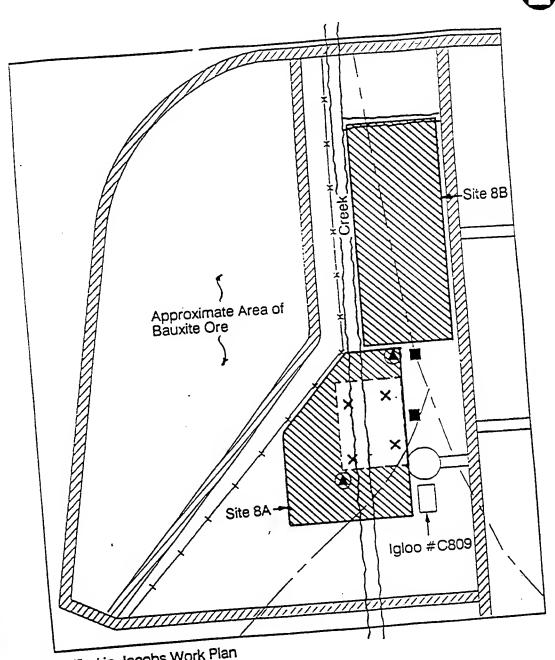


Figure 2. Site Location Map

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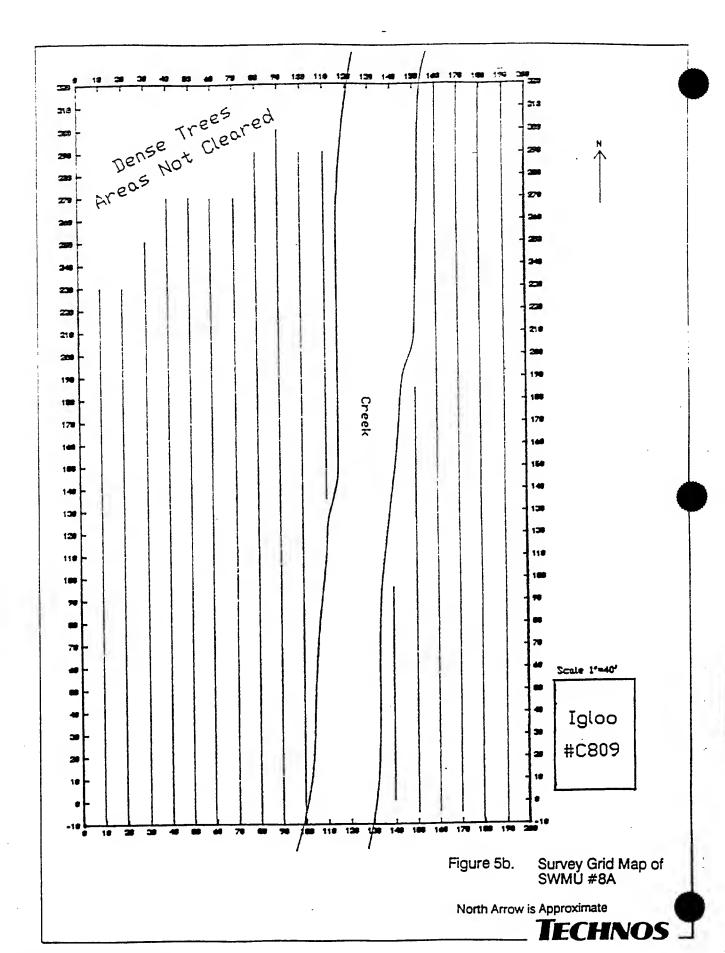


- Area Identified in Jacobs Work Plan
- Areas Actually Surveyed
- SURFACE SOIL SAMPLE X
- SEDIMENT
- SOIL BORING MONITORING WELL

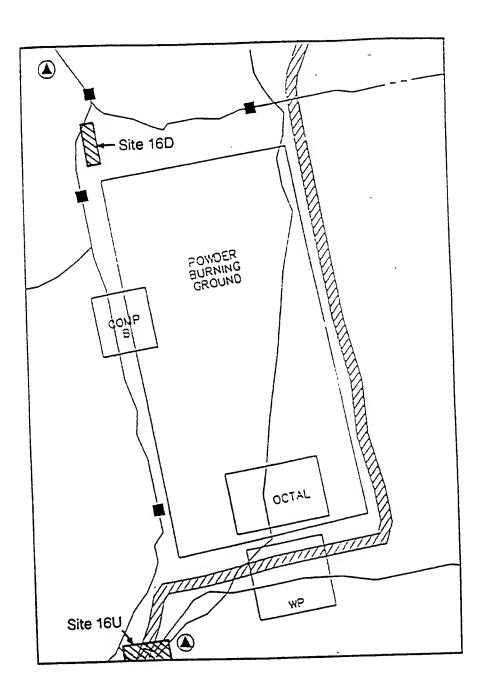
From Jacobs Engineering Group, Inc. Work Plan

Site Map of SWMU #8 Figure 5a. Drawing not necessarily to scale. Site location and orientation are approximate. North Arrow is Approximate

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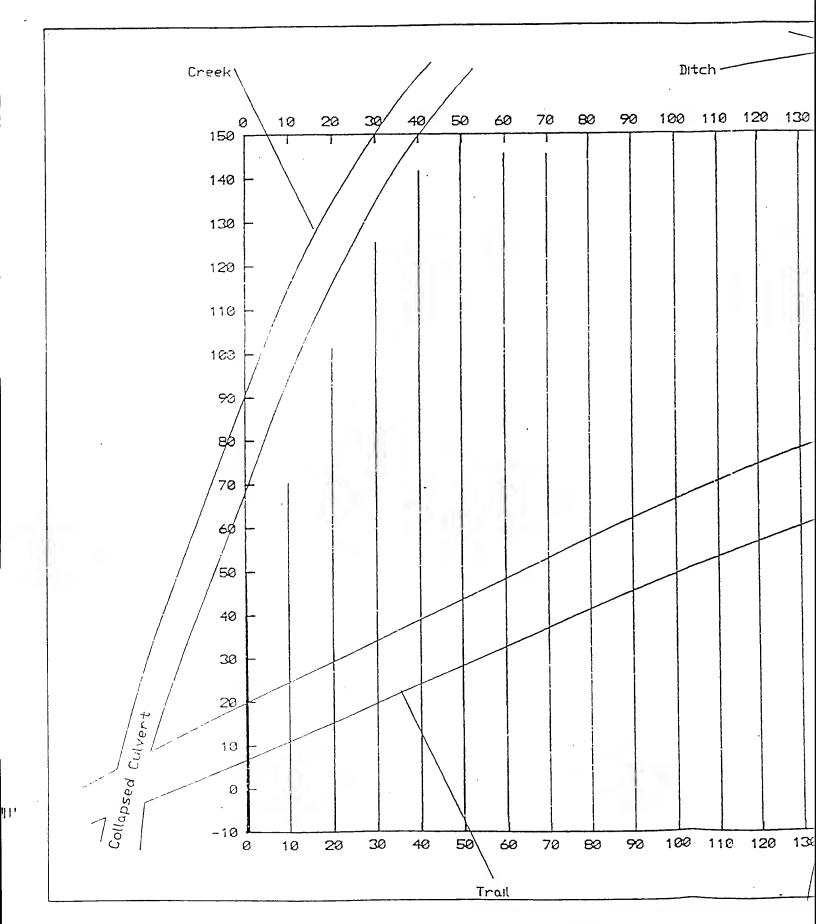
Sites Actually Surveyed

SOIL

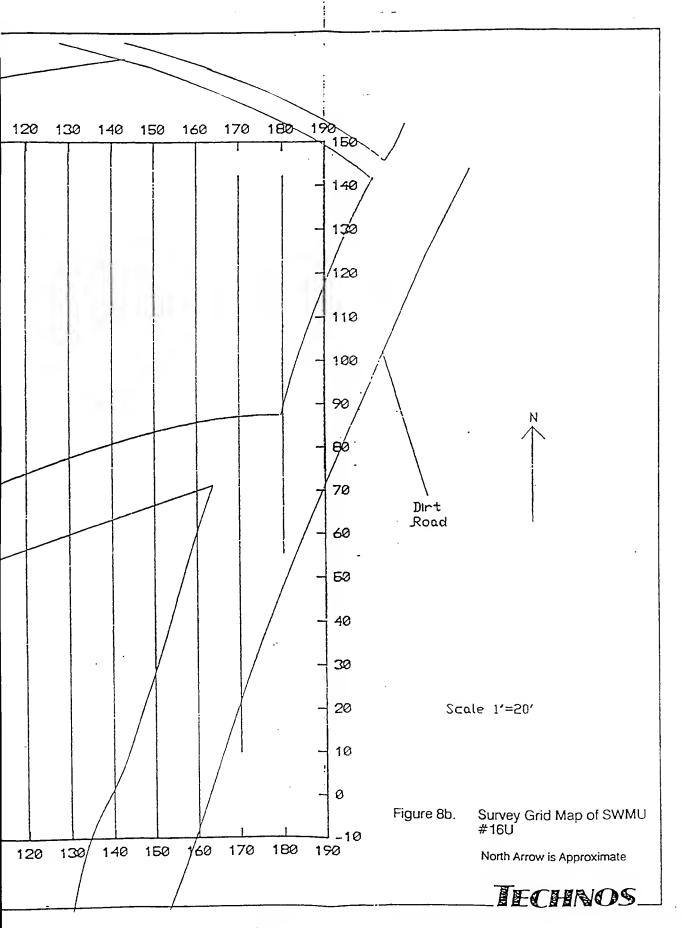
SOIL BORING/MONITOR WELL From Jacobs Engineering Group, Inc. Work Plan

Figure 8a. Site Map of SWMU #16
Drawing not necessarily to scale.
Site location and orientation are approximate.
North Arrow is Approximate

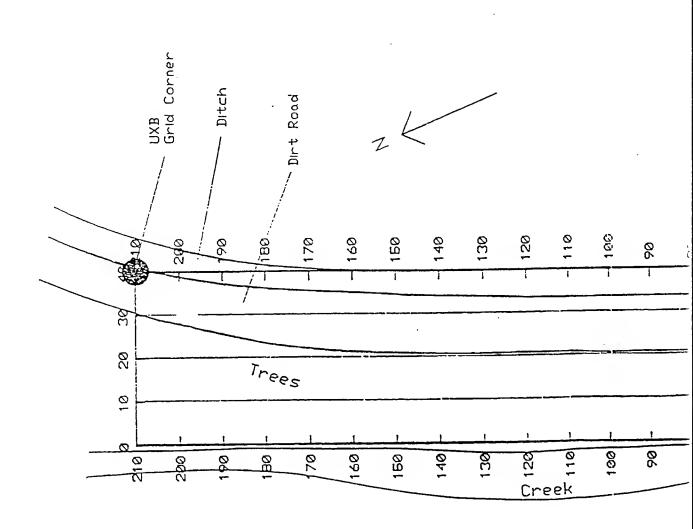
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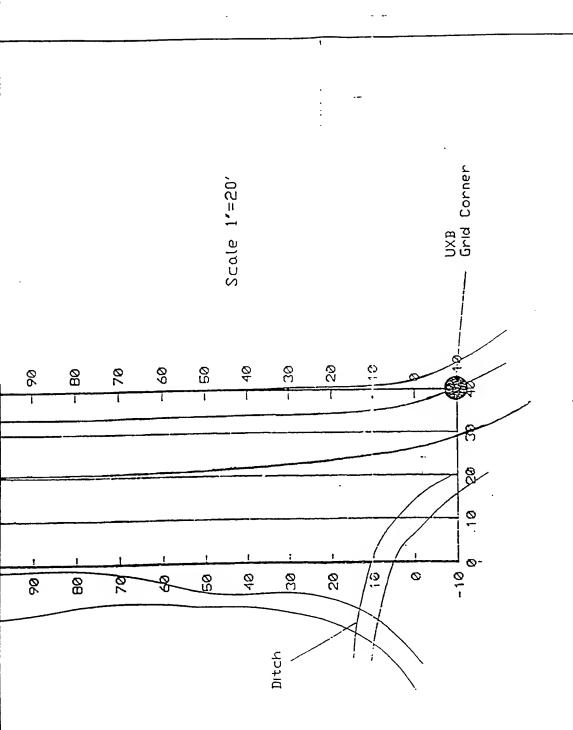
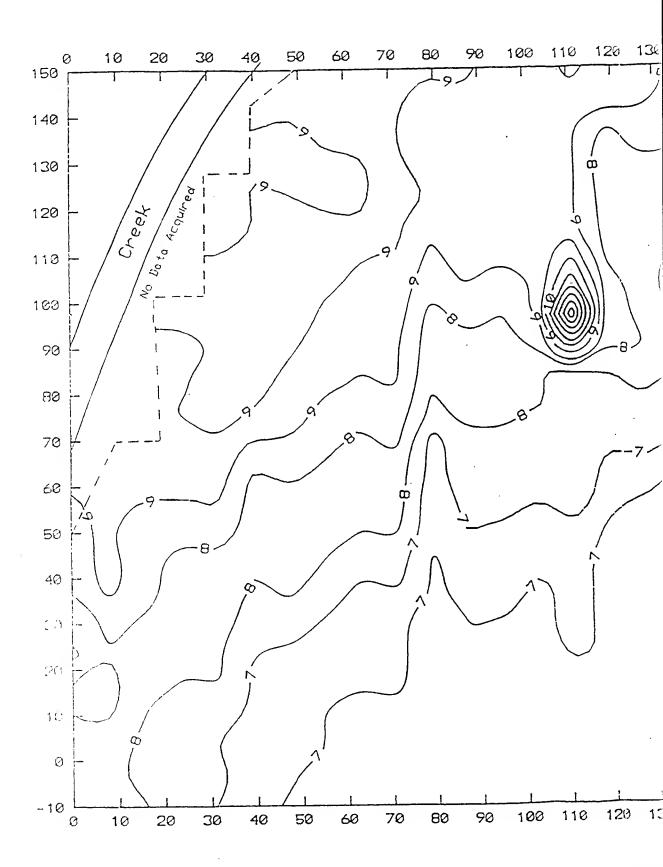


Figure 8c. Survey Grid Map of SWMU #16D

North Arrow is Approximate

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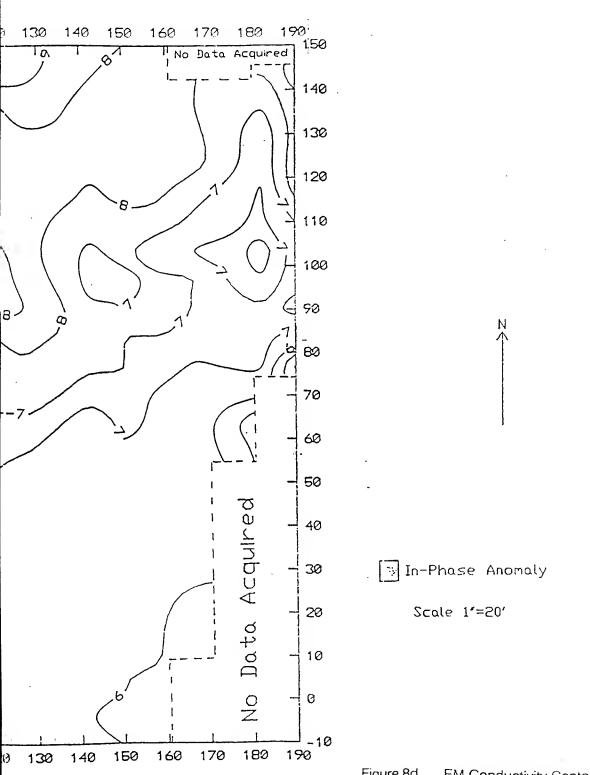


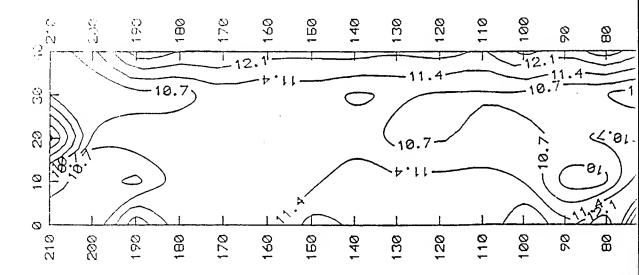
Figure 8d. EM Conductivity Contour Map of SWMU #16U

North Arrow is Approximate

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Scale 1'=20'

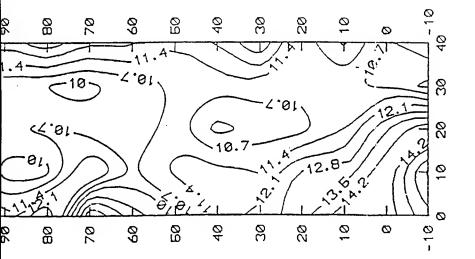


Figure 8e.

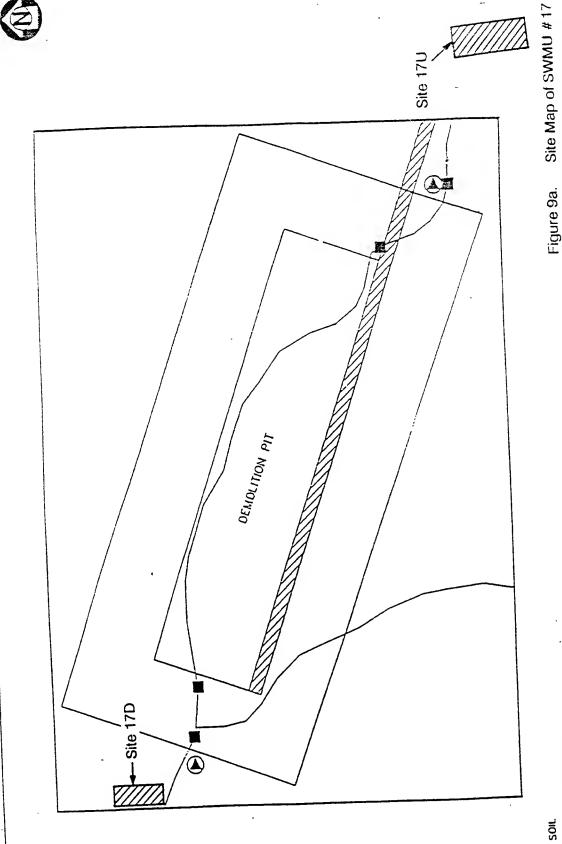
EM Conductivity Contour Map of SWMU #16D

North Arrow is Approximate

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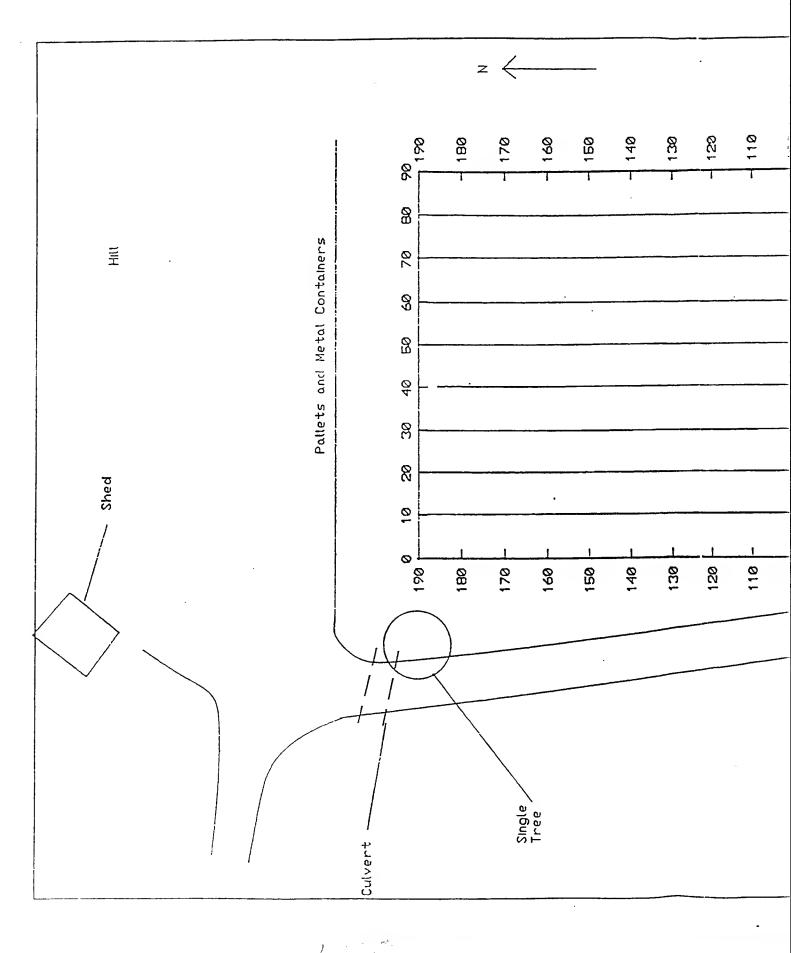




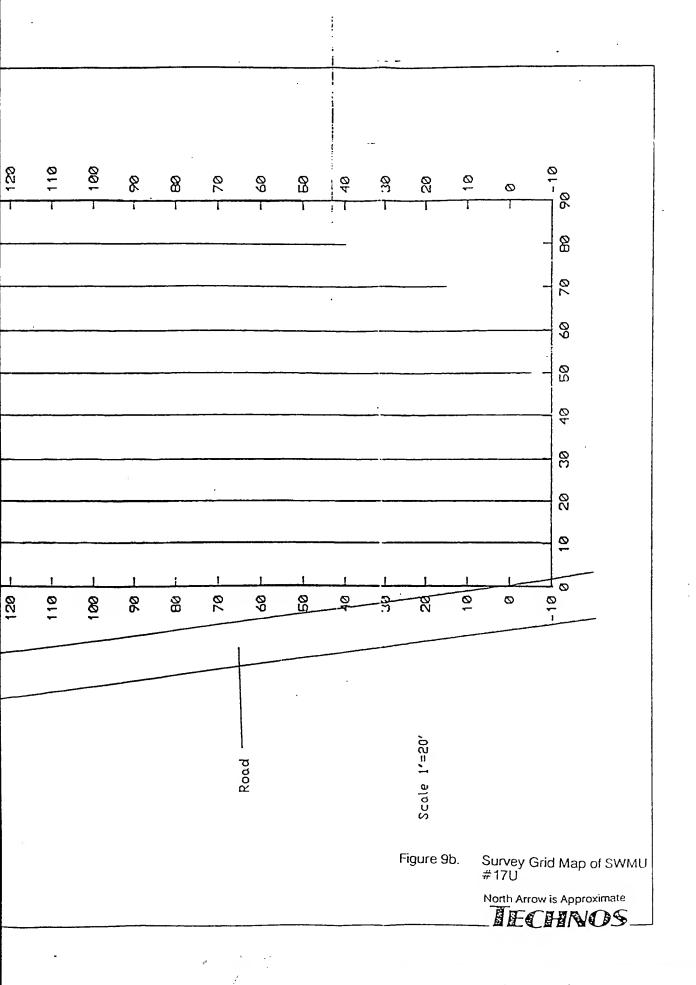
SOIL BORING/HOWITOR WELL

From Jacobs Engineering Group, Inc. Work Plan

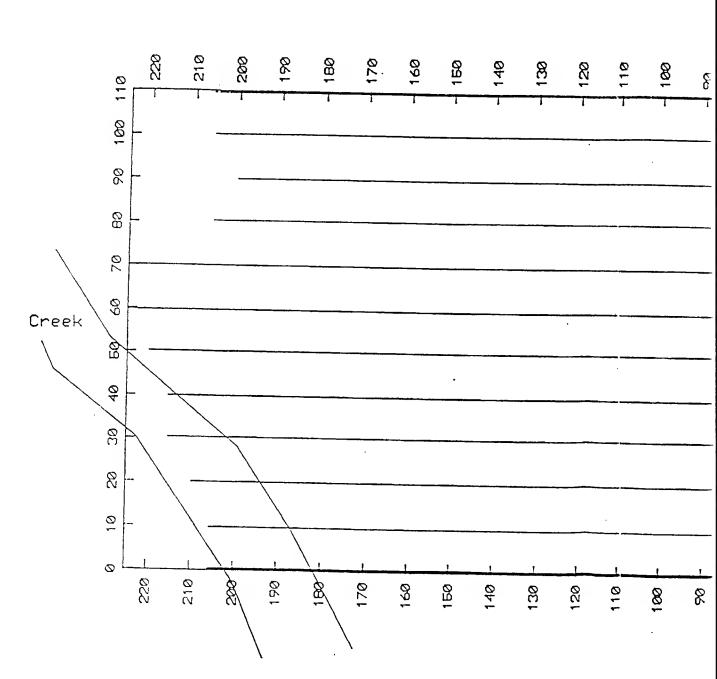
Sites Actually Surveyed



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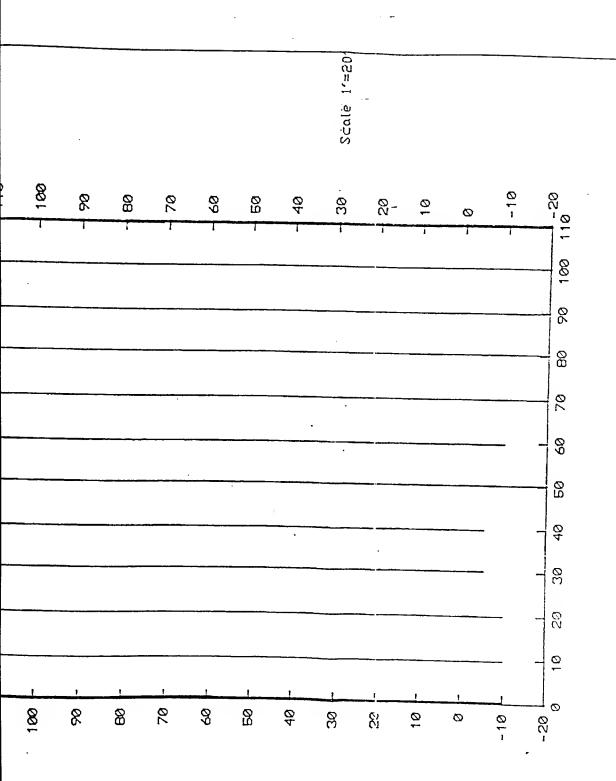
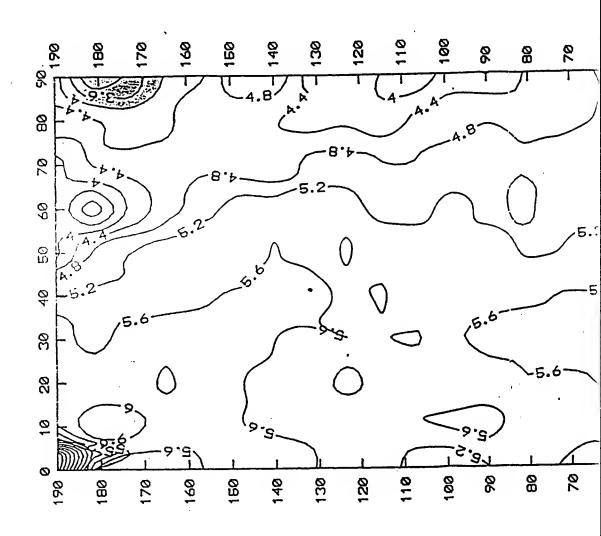


Figure 9c. Survey Grid Map of SWMU #17D

North Arrow is Approximate

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In-Phase Anomaly

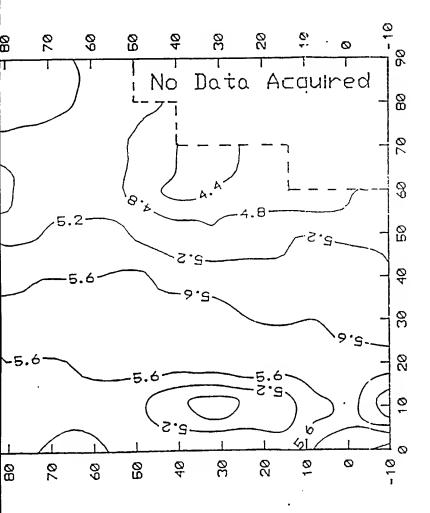
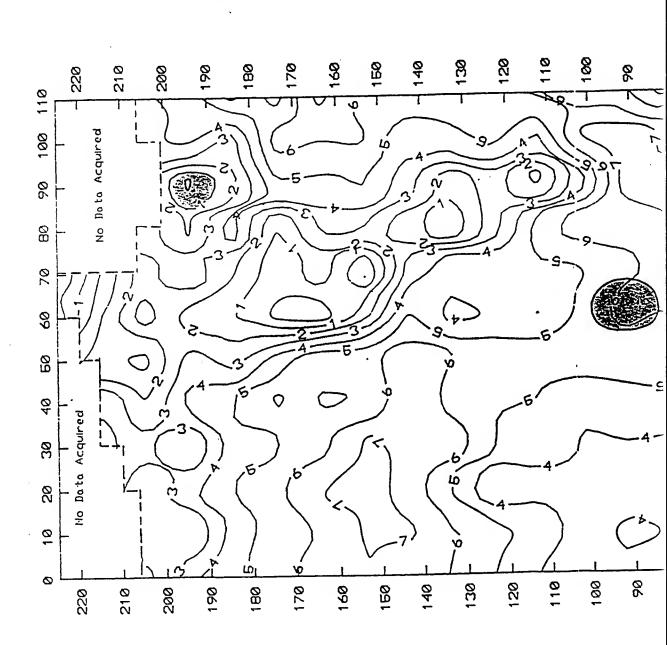


Figure 9d. EM Conductivity Contour Map of SWMU #17U

North Arrow is Approximate

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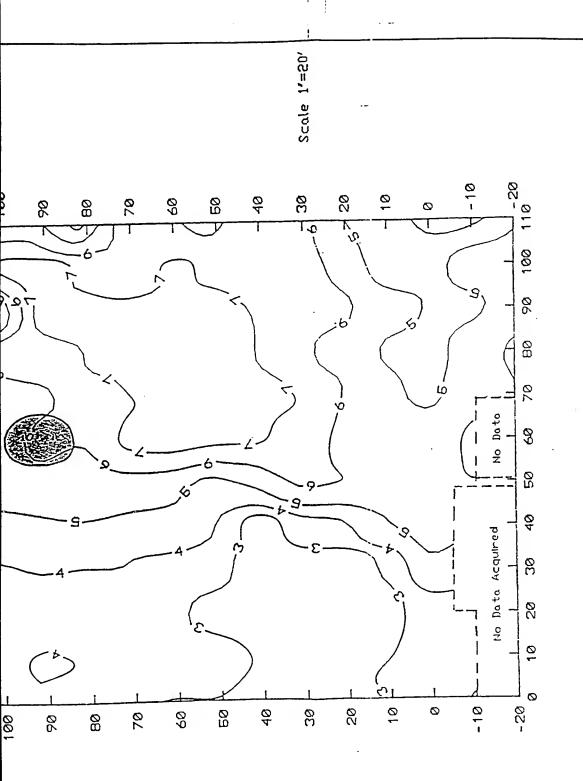




In-Phase Anomaly

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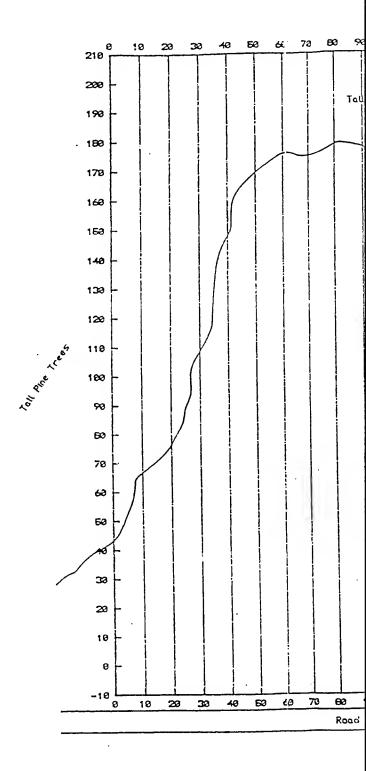


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Figure 9e. EM Conductivity Contour Map of SWMU #17D

North Arrow is Approximate

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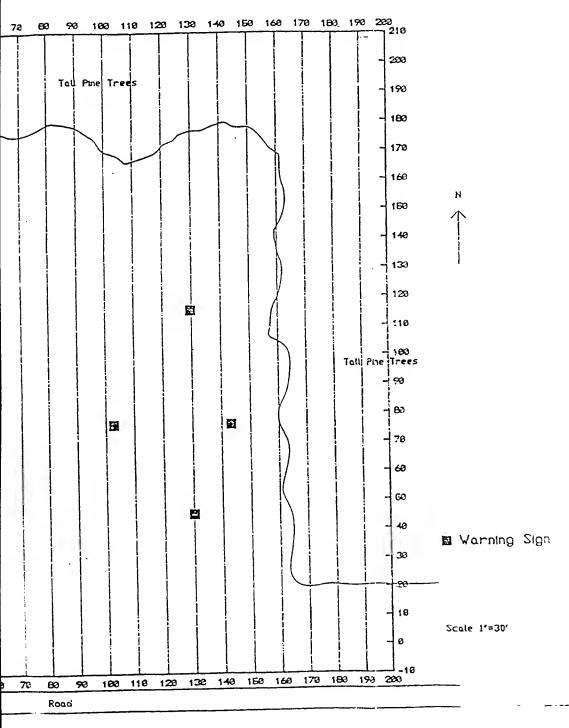
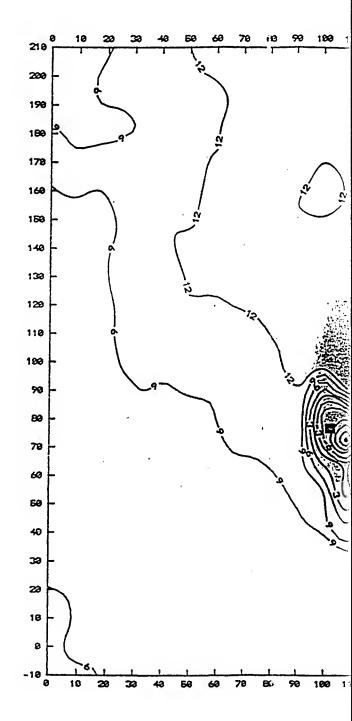


Figure 10b. Survey Grid Map of SWMU #26

North Arrow is Approximate

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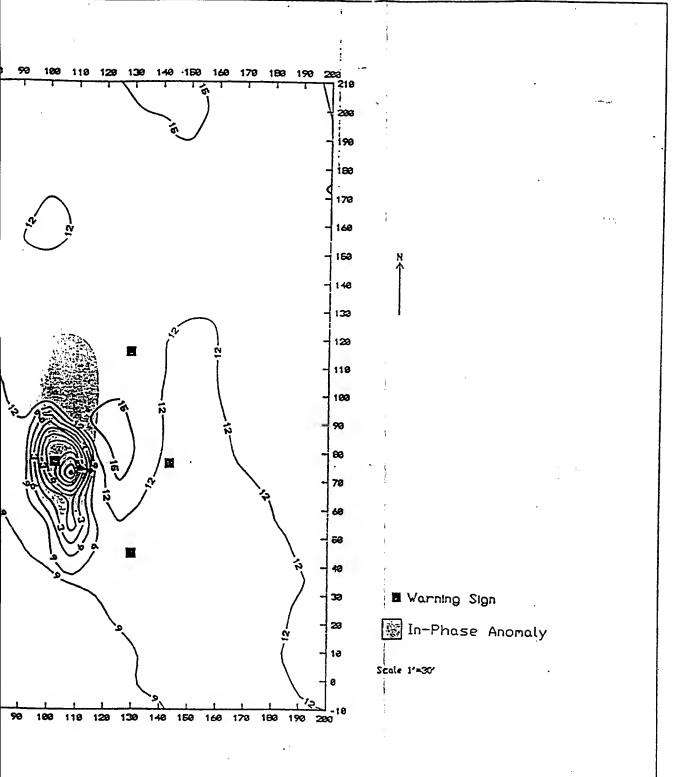
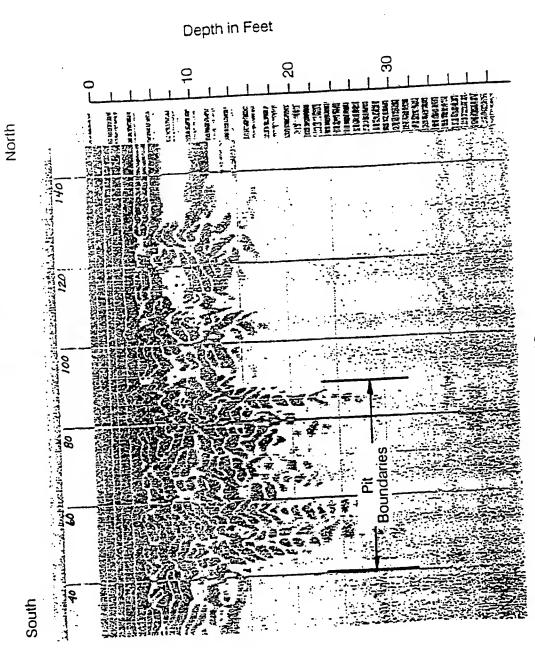


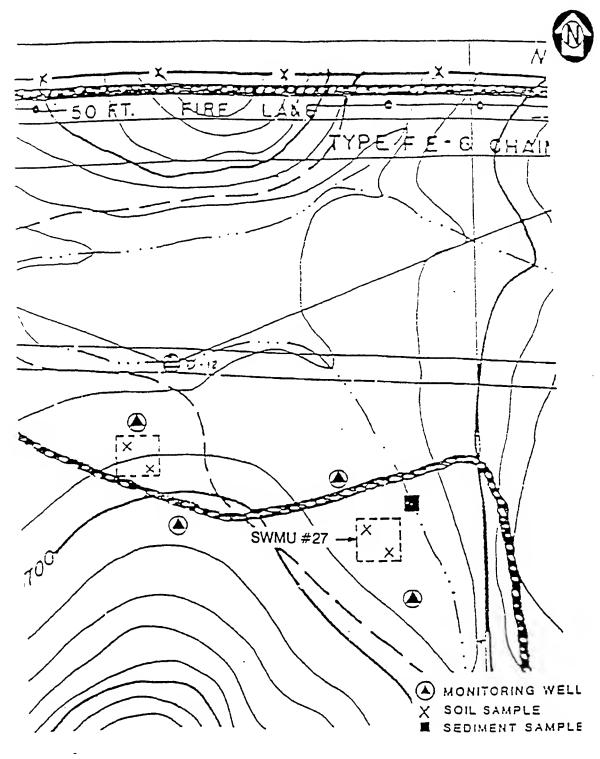
Figure 10c. EM Conductivity Contour Map of SWMU #26
North Arrow is Approximate

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Figure 10d.



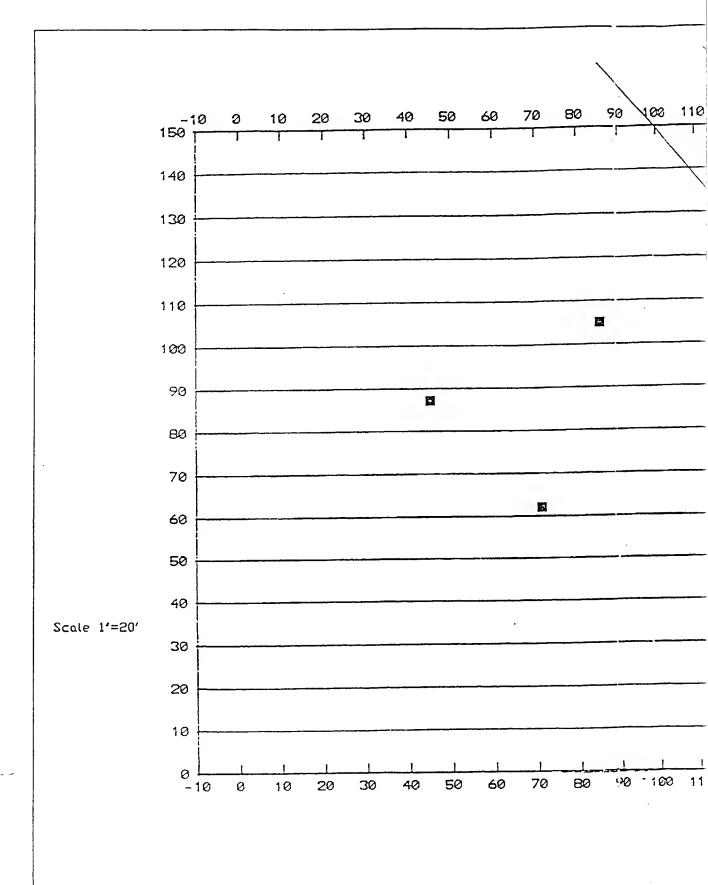
LINE 110

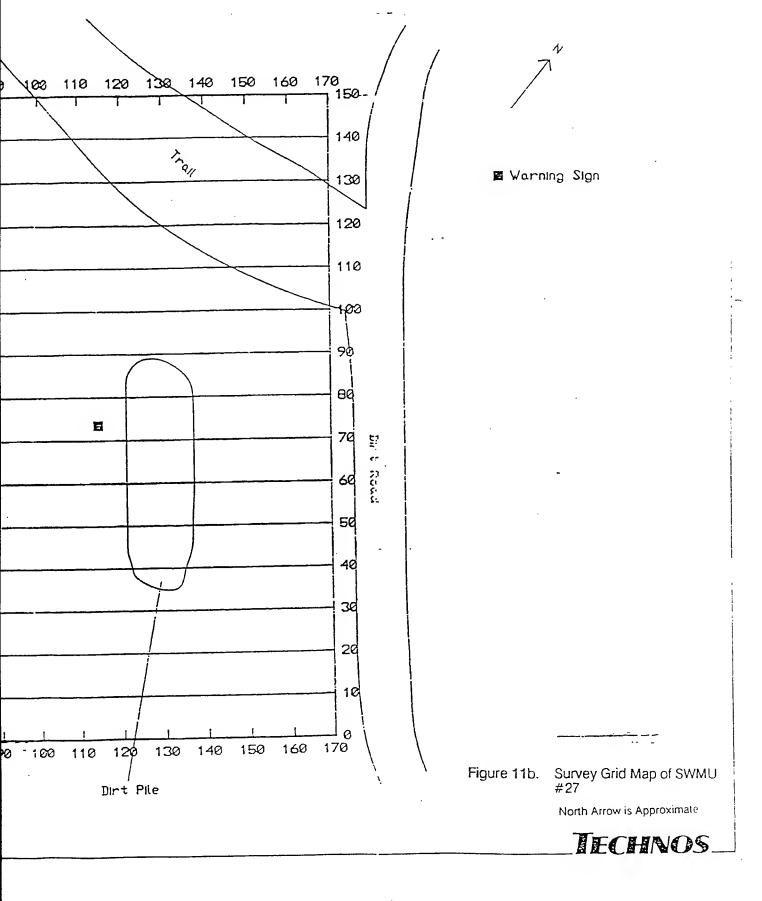


From Jacobs Engineering Group, Inc. Work Plan

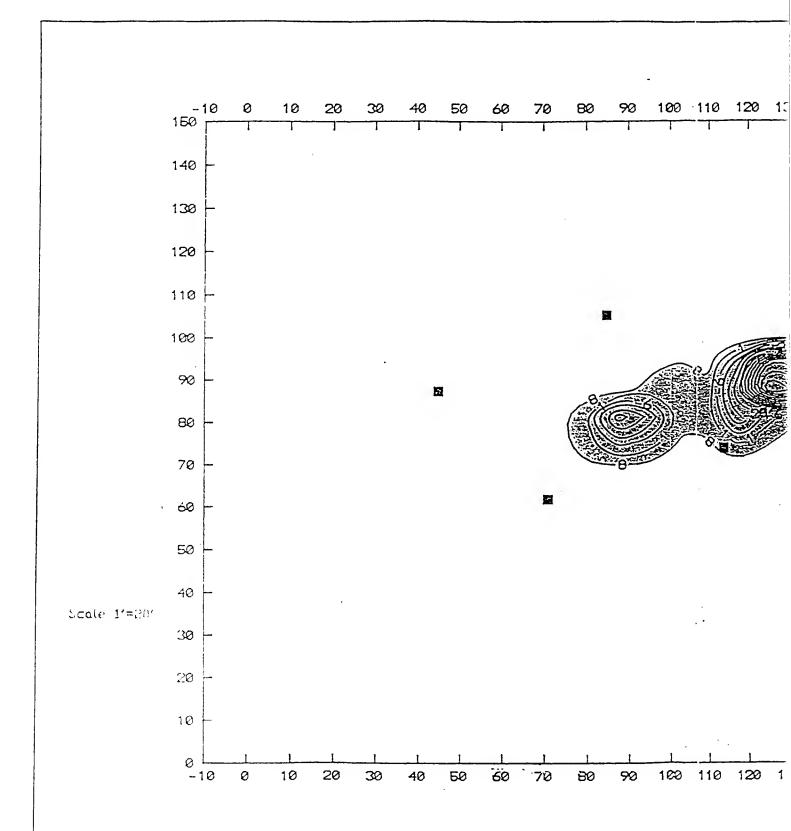
Figure 11a. Site Map of SWMU #27
Drawing not necessarily to scale.
Site location, orientation and north arrow are approximate.

TECHNOS .





21/10



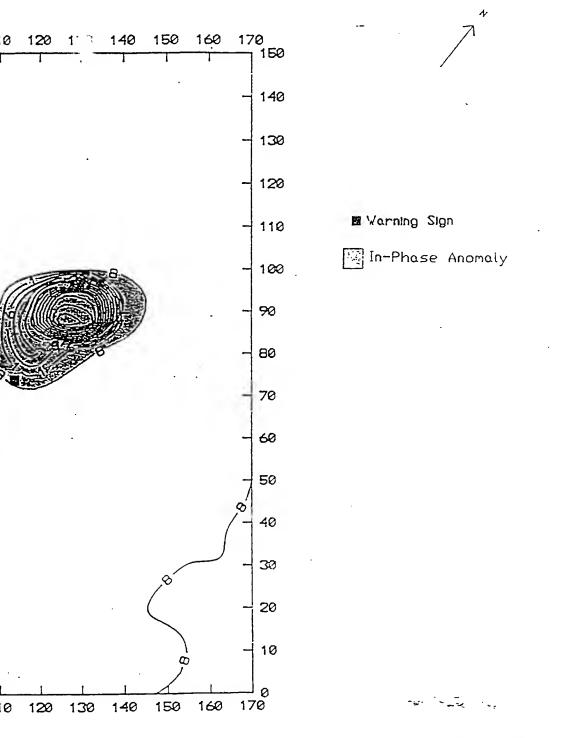


Figure 11c. EM Conductivity Contour Map of SWMU #27

North Arrow is Approximate

TECHNOS

APPENDIX A

DESCRIPTION OF THE ELECTROMAGNETIC (EM) METHOD

The electromagnetic (EM) method measures the electrical conductivity in millisiemens/meter or millimhos/meter) Electrical conductivity is a function of the type of soil and rock, its porosity and the fluids which fill the pore spaces. The specific conductance of the pore fluids often dominates the measurement.

The method is applicable to the assessment of natural hydrogeologic conditions (Griffith and King, 1969; McNeill, 1980; Telford, et al., 1982). Natural variations in subsurface conductivity may be caused by changes in basic soil or rock types, thickness of soil and rock layers, moisture content, and depth to water table. Localized deposits of natural organics, clay, sand, gravel, or salt-rich zones will affect subsurface conductivity values. Structural features such as fractures or voids can also produce changes in conductivity.

The absolute values of conductivity for geologic materials are not necessarily diagnostic in themselves, but their spatial variations, both laterally and with depth, can be significant. It is the identification of these spatial variations or anomalies which enable the EM method to rapidly find potential problem areas.

Because the specific conductance of fluids in pore spaces can dominate the measurements, detection and mapping of contaminant plumes can often be accomplished using the EM method. Because inorganics in sufficient concentrations are often more electrically conductive than groundwater, both the lateral and vertical extent of an inorganic plume can be mapped using the EM method.

Correlation between groundwater chemistry data and results using electrical methods (EM or resistivity) to map inorganics from landfills has been as good as 0.96 at the 95% confidence level (Benson, et al., 1985). Electrical methods provide a means of directly mapping the extent of the inorganic contaminants in-situ, obtaining direction of flow, and estimating concentration gradients (Figure 8). Time-series measurements can be made with these methods to obtain plume dynamics over time, and thus provide vital information for assessing and modeling of groundwater changes of flow (Benson, et al., 1988).

If the contaminate plume consists of a mix of organics and inorganics, such as leachate from a landfill, a first approximation to the distribution of the organics can often be made by using electrical methods to map the more electrically conductive inorganics. Correlation between groundwater chemistry data for total organic carbon in a landfill leachate and results using electrical methods has been as good as 0.85 at the 95% confidence level (Benson, et al., 1985).

Generally, the geophysical methods are not used to detect and map organic contaminants such as trichloroethylene (TCE). In cases where pure organics such as TCE exist, the EM method can often be used to define permeable pathways or buried channels through which these contaminants can migrate.

Direct detection of hydrocarbons can sometimes be accomplished by looking for a conductivity low associated with the organics. The possibility for such an anomaly exists where large amounts of hydrocarbons have been in place for a long period of time, have replaced pore fluid and there is a sufficient contrast in electrical values between the natural background values and the hydrocarbons. To date this approach has had limited success.

- Appendix A Page 2 -

The EM method may be used to obtain data by "profiling" or "sounding". Profiling provides a means of mapping lateral changes in subsurface electrical conductivity to a given depth. Profiling measurements are made by obtaining data at a number of stations along a survey line. The spacings between the profiling measurements will depend upon the geologic variability of the setting and upon the lateral resolution desired. At each station along the profile line, data may be obtained for one depth or a number of depths depending upon project requirements. It is useful to take at least two measurements, a shallow one and a deeper one, so that the influence of the highly variable shallow soils and cultural influences can be assessed. Profiling is well suited to the delineation of hydrogeologic anomalies, mapping of contaminant plumes and location of buried material.

The sounding method provides a means of determining the vertical changes in electrical conductivity correlating with soil and rock layers. In this case, the instrument is located at one location and measurements made at increasing depths. Interpretation of sounding data provides the depth, thickness and conductivity of subsurface layers with different electrical conductivities.

Because the electromagnetic instruments do not require electrical contact with the ground, measurements may be made quite rapidly. Lateral variations in conductivity can be detected and mapped by profiling. Using commonly available frequency-domain EM instruments, profiling station measurements may be made to depths ranging from 2.5 to 200 feet.

Continuous EM profiling data can be obtained from 2.5 feet to a depth of 50 feet (Benson, et al., 1982). These continuous measurements significantly improve lateral - Appendix A Page 3 -

resolution (compared to station measurements) for mapping small hydrogeologic features. Data can be recorded on an analog strip chart-recorder or a digital data acquisition system. The excellent lateral resolution obtained from continuous EM profiling data has been used to outline closely-spaced burial pits, to reveal the migration of contaminants into the surrounding soils, or to delineate complex fracture patterns (Benson, et al., 1982).

in addition to evaluation of natural hydrogeologic conditions and mapping of contaminant plumes, some of the electromagnetic instrumentation can be used to locate trench boundaries, buried wastes and drums, and metallic utility lines. Frequency-domain EM instruments provide two signal outputs consisting of an inphase component and an out-of-phase component. The out-of-phase component is used to measure electrical conductivity and can be used to locate pipes. The inphase component is a measure of the magnetic susceptibility, but it can also be used to detect both ferrous and nonferrous metal. For example, using the in-phase component, a single 55-gallon steel drum can be detected at a depth of about 6 to 8 feet.

Vertical variations in conductivity can be determined by sounding. Frequency domain sounding data can be acquired for depths ranging from 2.5 to 200 feet by combining data from a variety of commonly available frequency-domain EM instruments. The instrumentation is placed at one location and measurements are made at increasing depths by a changing coil orientation and/or coil spacing. The vertical resolution of frequency-domain EM soundings is relatively poor since only a limited number of measurements are made at only a few depths. However, they do provide a quick means of obtaining limited vertical information.

Some of the extremely low conductivity values or conductivities which become negative on the EM contour maps do not necessary mean low or negative conductivity values but are in fact caused by:

- The presence of buried metal in which case the in-phase component of the EM data will also be anomalous and/or;
- The presence of a highly conductive media (such as a salt brine spill) which has exceeded the linear range of the EM31 response (conductivities greater then 400 mmhos/m) resulting in values much lower than actual.

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APPENDIX B DESCRIPTION OF THE GROUND PENETRATING RADAR METHOD

Ground penetrating radar uses high frequency electromagnetic waves (from less than 100 MHz to slightly more than 1,000 MHz) to acquire subsurface information. Energy is radiated downward into the ground from a transmitter and is reflected back to a receiving antenna. Reflections of the radar waves occur whenever there is a change in the dielectric constant and/or electrical conductivity between two materials. Changes in conductivity and in dielectric properties are associated with natural geologic and/or hydrogeologic conditions such as bedding, cementation, moisture, clay content, voids, and fractures. Therefore, an interface between two soil or rock layers which has a sufficient contrast in electric properties will show up in the radar profile (Benson, et al., 1979; 1982; 1987).

The reflected signals are recorded and produce a continuous cross-sectional picture or profile of shallow subsurface conditions. The radar record is similar to the view we would get if we observed the cross-section of soils in a trench or a cross-section of rock at a road cut.

The vertical scale of the radar profile is in units of time, the time it takes for an electromagnetic wave to move down to a reflector and back to the surface (two-way travel time). The unit of time is nanoseconds (nanosecond = 10-9 second). This time is relatively short because the waves are travelling at almost the speed of light. Times are then converted to depth by relating measurements or assumptions about the velocity of the waves in the subsurface materials.

Depth of penetration of the radar wave is highly site-specific. Penetration depth is limited by attenuation due to the higher electrical conductivity, dielectric losses and/or scattering of subsurface materials. Generally, radar penetration is greater in coarser, dry, sandy soils or massive rock, and less penetration is obtained in wet, fine grained clayey (conductive) soils. Data may still be obtained from saturated materials if the specific conductance of the pore fluid is sufficiently low. For example, radar has been applied to map the sediments in fresh water lakes and rivers. While radar penetration in soil and rock to more than 100 feet has been reported, penetration of 15 to 30 feet is more typical. In silts and clays, penetration may be limited to a few feet or less. Yet, in some situations, useful results can be obtained in silts and clays (Benson, 1990). The water table can be detected in coarser grained materials but not in finer grained sediments with a large capillary boundary. Both metallic and nonmetallic buried pipes and drums can also be detected.

The continuous data produced by the radar method offers a number of advantages over some of the other geophysical methods. Continuous profiling permits data to be gathered much more rapidly, thereby providing a large amount of data for a given budget. In some cases, total site coverage of an area can be obtained. Radar data may be obtained at speeds up to 5 mph to 10 mph or more. Very high lateral resolution data can be obtained by towing the antenna(s) by hand at much slower speeds (less than 1 mph).

Radar has the highest resolution of all of the surface geophysical methods. Vertical resolution of radar data can range from less than an inch to several feet depending upon the depth and the electromagnetic wave frequency used. A variety of antennas can be selected to cover frequencies from less than 100 MHz to 1,000 MHz. Lower

frequencies provide greater depths of penetration, but lower resolution, and higher frequencies provide less penetration, but higher resolution.

The picture-like radar record allows for preliminary field analysis of radar data is possible using the picture-like record. Despite its simple graphic format, there are many pitfalls in the interpretation of radar data. There are multiple bands within the data due to ringing which may obscure layers and cause confusion in interpretation. If an unsoiled antenna is used, overhead reflections from trees or power lines may appear on the record (this is only a problem with lower frequency unsoiled antennas). System and geologic noise can sometimes clutter up the record, making interpretation difficult. Although radar can be recorded on magnetic media and processed by computer, the necessary geologic or hydrologic information can often be obtained from the raw graphic records.

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- Benson, R. C., R. A. Glaccum, and M. R. Noel, 1982. Geophysical Techniques for Sensing Buried Waste and Waste Migration. Environmental Protection Agency -- Environmental Monitoring Systems Laboratory, Las Vegas, Nevada, pp. 236.
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minimize any errors due to natural long period changes of the earth's field. Cultural noise, however, will remain a problem with total field measurements. Many of these problems can be avoided by use of gradiometer measurements and proper field techniques.

Gradiometer measurements are made by a gradiometer, which is simply two magnetic sensors separated vertically (or horizontally) by a few feet. Gradient measurements have a distinct advantage over total field measurements. They are insensitive to natural changes in the earth's magnetic field and minimize most cultural effects. Because the response of a gradiometer is the difference of two total field measurements and it responds only to the local gradient. It is also better able to locate a relatively small target, such as a buried drum.

The disadvantage of a gradiometer is that it is less sensitive than a total field instrument. A total field magnetometer's response is inversely proportional to the cube of the distance to the target (such as a drum). A gradiometer response is inversely proportional to the fourth power of the distance to the target (such as a drum), making it less sensitive than the total field measurement. While gradiometers are inherently less sensitive than total field instruments, they are also much less sensitive to many sources of noise. Under ideal conditions, a single drum can be readily detected at depths up to about 20 feet with a total field magnetometer and at depths of about 10 feet with a gradient magnetometer. Massive piles of drums can be detected at depths up to 50 feet or more with a total field magnetometer and at depths of about 25 feet with a gradient magnetometer.

Two types of magnetometer sensors are in common use, the proton and the fluxgate.

A total field or gradient proton procession magnetometer normally requires the - Appendix C Page 2 -

operator to stop to take a measurement. The operator then moves to the next station and repeats the measurement process. With a fluxgate gradiometer, continuous acquisition of data can be acquired as the magnetometer is moved across the site. Continuous coverage is much more suitable for very detailed (high resolution) surveys to identify local targets, such as unexploded ordnance, drums, and the mapping of areas in which complex anomalies are expected.

REFERENCES

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Appendix D

Deviations from the Approved Work Plan and the Quality Assurance Program Plan

Deviations from the Approved Work Plan and the Quality Assurance Program Plan

The work performed for this ESI consistently followed the approved Work Plan and Quality Assurance Program Plan (QAPP) wherever possible. However, in several instances, field conditions or practical operational requirements dictated that approved deviations be made from the Work Plan or QAPP. This Appendix describes those deviations.

Monitoring Well Installation

- Where shallow wells could not be completed as per the work plan, wells were completed with deviations in well design approved by USATHAMA. The shallow wells where these deviations occurred were 91B14, 91B15, 91B18 and 91B19. In these instances, sand pack was brought to elevations of less than three feet above the screen. In addition, no more than two feet of bentonite was used above the sand pack.
- Wells that were slow to recharge were purged less than five well volumes. The number of well volumes was determined in such cases after consulting USATHAMA.

Geophysical Surveys

- The instrument used for the magnetometer survey was a Forester Ferex 4.021 Fluxgate gradiometer as opposed to an EDA Instruments Omni Plus gradiometer as discussed in the Work Plan and the QAPP.
- Ground penetrating radar (GPR) was used to confirm the location of the North TNT Burial Pit (SWMU #26) as well as the electromagnetic (EM) survey. There is no discussion of GPR surveys in the QAPP or the Work Plan.

Topographic Surveys

- Topographic surveys were not performed at SWMUs on which geophysical surveys were conducted. Survey grids were staked by TECHNOS personnel.
- Natural ground surface is not accessible at monitoring well locations due to placement of concrete pads around the protective casings. Ground elevation at each well was established on the pad at the base of the protective casing. Reference points are chiseled into the concrete.

Monitoring Well Purge-Water Disposal

Methods for the disposal of water extracted from groundwater monitoring wells for sampling purposes are not discussed in the QAPP. As approved by the Alabama Department of Environmental Management (ADEM), this purge water was disposed of in the Industrial Wastewater Treatment Plant located in the Southeast Industrial Area at ANAD (see attached ADEM approval letter).

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



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December 16, 1991

Mr. Ronald M. Grant, Chief Environmental Managament Division U.S Army Anniston Army Depot SDSAN-DEL-EMO Anniston, Alabama 36201

Dear Mr Grant:

This is in response to the letter received by the Department on December 2, 1991, in which the Anniston Army Depot requested approval to dispose of wastewaters derived from its groundwater investigations in its industrial Waste Treatment Plant (IWTP). Additionally, approval was requested to place wastewaters containing levels of compounds which exceed toxic characteristic levels under RCRA into the IWTP.

Regarding the first request, the Department does not object to a limited quantity of these wastewaters being placed into the IWTP for treatment. The analyses of these waters submitted with your request do not indicate that they would pose a threat to the operation of the treatment facility. However, as was stated in the Department's letter of November 22, 1991, any long-tenn disposal of these wastewaters in this manner would require a modification of the Depot's NPDES permit

As for the request regarding RCRA characteristic wastewater, the ADEM Land Division has indicated that it has no regulatory involvement with this disposal method since it occurs under an NPDES permit. Therefore, the Depot may utilize this method of disposal, provided that quantities of these wastewalurs are firnited and that their generation is on an intermittent basis. Also, the introduction of these wastewaters into the IWTP shall not cause interference with the treatment facilities or a violation of an instream water quality standard in the receiving stream.

Should you have any questions concerning this matter, please feel free to contact me at 271-7845.

Sincerely,

Phillip D. Bavis Industrial Branch Water Division

CC.

Kim Kennedy - Land Division Joe Downey - Special Projects Appendix E

Data Review and Validation

DATA REVIEW AND VALIDATION

As required by the approved ANAD Quality Control Plan (QCP), JEG has undertaken a review of the contractor laboratory data to assure that the data generated by the ESI are accurate and consistent with the project objectives. To this end, the reported data were comprehensively evaluated for accuracy, precision, representativeness, and completeness as described below.

Data generated during the ESI were retrieved from USAEC's Installation Restoration Data Management Information System (IRDMIS). IRDMIS is the minicomputer-based, relational database utilized by USAEC for chemical, physical, geologic, and geographical information. The USAEC-certified contractor laboratory utilized the analytical methods specified in the ANAD Quality Control Plan (QCP). Analytical results were submitted by the laboratory for entry into IRDMIS according to reporting protocols specified in the IRDMIS User's Manual (USATHAMA, 1991).

1.0 SAMPLE COLLECTION AND ANALYTIC DATA MANAGEMENT PROCEDURES

Samples collected for laboratory analysis were identified with a unique field sample number. The sample location, matrix sampled, date sampled, sampling technique, and sampling depth were also recorded for each environmental sample. Each sample was further identified by type (i.e., borehole, surface soil, etc). At the analytical laboratory, a unique number was assigned to each aliquot of a sample designated for a separate analysis. These identifying characteristics for each sample were also input into the IRDMIS data management system.

Laboratory data, quality control data and characteristic sample data were formatted for entry into the IRDMIS data management system. IRDMIS incorporates data quality checks to ensure that blanks, duplicates, matrix spike, matrix spike duplicate, and qualifying codes have been included with each lot of samples. Data are entered into IRDMIS before corrections for dilutions, percent moisture, and analysis accuracy. IRDMIS checks that reported values are within certified ranges. Accuracy values, based on percent recovery of specified analytes, are reported to IRDMIS for each data lot.

Chemical data are reported in IRDMIS utilizing abbreviations for analytes (Appendix G). If necessary, flagging codes (Table E-1) are assigned to data points. Boolean indicators may also be added to data points to indicate that a measured quantity is not within the certified range or the analytical method utilized does not yield quantitative results (Table E-2).

Table E-1 (Continued)

s	Results based on internal standard. This flagging code is to be used in conjunction with methods which use an internal standard. Compounds for which no certification data exist are quantitated by direct comparison to the internal standard. Cannot be used with a boolean, since there is (implied) quantitation.
Т	Analyzed for but not detected. This flagging code is to be used for non-GC/MS multi-analyte methods to report compounds that are a normal part of the methodology but for which no certification data exists.
U	Analysis is unconfirmed. This flagging code is to be used when a conformational analysis is done but does not verify the analytical results obtained from the initial analysis.
V	Sample subjected to unusual storage conditions. This flagging code is to be used when the sample storage conditions may affect the analytical results.
w	Single analyte required from a multi-analyte method. This flagging code is to be used when only one analyte from a multi-analyte method is to be reported. This flagging code is useful when spiking solutions contain more than one analyte of interest for the method.
×	Analyte recovery outside of certified range but within acceptable limits. This flagging code is to be used when analyte recoveries exceed the upper limit of the certified range by less than 15% and the laboratory feels a dilution is not warranted.

^{*}SOURCE: User's Guide Installation Restoration Data Management Information System, Volume II Data Dictionary

2.0 DATA PACKAGES REVIEW

The data packages supplied by the analytical laboratory were reviewed by JEG for completeness, adherence to reporting limits and control limits, holding time exceedances, and initial and continuing calibration requirements as outlined in the QCP. The laboratory data summaries are discussed below.

Silver: A below average trend in spike recovery was noted for analyses by USATHAMA method JC02 performed January 20 through January 30, 1993 for lots DAQ and DAR. The percent recovery of silver in the low spike averaged approximately 88%. The results are still within control limits. Spike recoveries for samples analyzed February 14 through 24, were trend free.

Inorganics by ICP: For samples in lots DRY, DRZ and HBA analyzed January 20, 1992 through January 28, 1992 with USATHAMA method JS14, above average three-day trends for spike recoveries were noted for Ba, Co, Cr, Mo, Tl, and Zn. A downward trend was noted for Cu. Sb was characterized by an extended-range below average trend. Some three day and single day control charts were out-of-control for Ba, Sb, Cd, Zn, and Pb for these lots. For lot DRY, the external calibration check was within two standard deviations for Ba, Pb, and Cd, but outside this limit for Cd and Zn. For lot DRZ, the external calibration check was within two standard deviations for Ba, Cu, Pb, and Sb. For lot HBA, the external calibration check was within two standard deviations for Ba, Cu, and Sb. Cd was not identified in any samples from lot DRY and Sb was not identified in any samples in lots DRY or DRZ. The out-of-control situations are unlikely to impact data except for barium. The samples impacted include soil samples from borings 91B12. Barium was detected in these samples at concentrations of less than 4.87 mg/kg to 30.9 mg/kg. Barium results for these samples may show a high bias.

For samples in lots HBF and HBG analyzed between February 24 and 26, 1992, the detected concentrations of Ba and Cr in the low spike for lot HBF were below certified reporting limits (CRLs). The Cr result was flagged as "P" to denote that it is between the criteria of detection (COD) and CRL. The Ba result was reported as less than (LT). Some one-day and three-day control charts were out of control for Ba, Cr, Cu, Ni, and Sb. The impact of the out-of-control situations is negligible except for Sb, whose average recovery in the low spike was 65% and Sb was not detected in any samples in these lots. The samples impacted include surface soil samples from S14S01, S14S02, S14S03, and S14S04. These samples may have a low bias for Sb.

control limits. Lot GOF analyzed for arsenic was out-of-control due to a low spike recovery in the previous lot (GOE) analyzed. Spike recovery in GOF was 97.2%. No arsenic was detected in samples in this lot.

Base, Neutral and Acid Extractables: For samples in lots DUT, DUU, and DUV analyzed January 24 through January 30, the three-day x-bar and range control charts for nitrobenzene-D5 were out-ofcontrol. Lot DUT was out-of-control due to two low terphenyl-D14 spike recoveries. Average percent spike recoveries for nitrobenzene-D5 for these lots were 66.7, 73.3 and 73.3 percent, respectively. The percent recovery for terphenyl-D14 in lot DUT was 80%. This may impact samples from boring 91B12. Lots DUZ and HDA analyzed between February 12 and 17, 1992 were out-of-control for nitrobenzene-D5 recovery and phenol-D5 was out-of-control for lot DUZ. The percent recovery for nitrobenzene-D5 in the high spike was 56.7 and 66.7 respectively in these two lots. It is likely that there is a negligible impact on the environmental data. Lots HDC and HDD analyzed between February 18 and 29, 1992 were out-of-control for 2,4,6-tribromophenol and nitrobenzene-D5 recoveries. The percent recovery of nitrobenzene-D5 in the high spike was 66.7 and 56.7 for these two lots and the recovery of 2,4,6tribromophenol in lot HDC was 66.7 percent. The impact of these low recoveries is likely to be negligible. The samples that may be impacted are surface soil samples S11S01, S11S02, S37S01, S37S03, and S37S05. For lot HDE, the control charts for nitrobenzene-D5 are out-of-control. The percent recovery for nitrobenzene-D5 was 66.7%. The impact of this out-of-control situation is likely to be negligible. Control charts for lots HDE, HDF, and HDG, analyzed March 6 to March 27, 1992, are out of control for nitrobenzene-D5. Lot HDG is out of control for 2,4,6-tribromophenol and phenol-D5. The percent recoveries of 2,4,6-tribromophenol, 2-fluorophenol, nitrobenzene-D5, and phenol-D5 in the high spike in lots HDE through HDG range from 80 to 86.7%, from 73.3 to 86.7%, from 66.7 to 86.7% and 80 to 100% respectively. These out-of-control situations are expected to have minimal impact on data useability. Lots GVA, GVC, GVD, GVE, and GVG through GVP analyzed for BNAs were all within control limits.

PCBs and pesticides: Lot DVP was analyzed within control limits by USATHAMA method LH19 on February 11, 1992. Lots DVR and DVS were also within control limits. The single day x-bar control chart for lindane was out of control in lot DVQ. Percent recoveries for control analytes in this lot were 53.6 to 70.7%. The impact of this out-of-control situation is negligible. Lots DVT and DVU were within control except for the single-day x-bar control chart for Endrin for lot DVT. The impact of this is also negligible.

3.1 ACCURACY

Accuracy is defined as the percent recovery of an analyte. The contract laboratory plotted the mean percent recovery and range of percent recovery on control charts prepared for each control analyte. Data from duplicate spiked QC samples were used to calculate percent recovery.

% Recovery = Found Concentration / (Spiked Concentration + Sample Concentration)

The laboratory utilized percent recovery of each analyte in spiked QC samples, the average percent recovery, and the difference between the percent recovery of two spiked samples in a continuous assessment of method accuracy. A minimum of twenty data points were utilized to set upper and lower control limits for percent recovery. Control charts prepared for each lot of data were utilized to determine if data were within acceptable control limits for accuracy. Control chart summaries are discussed in the introduction to this section.

In addition, an analysis accuracy was calculated for USATHAMA Class 1 analytical methods based on found versus recovered analytes. Analysis accuracies expressed as analyte recoveries are discussed in the introduction to this section of the report. Analysis accuracies are reported with each applicable lot of data to USATHAMA. Concentrations reported in IRDMIS reflect the accuracy of each analytical method.

The recovery of analytes in natural matrix spike (MS) and matrix spike duplicate (MSD) samples were calculated for ASA samples (Table E-3). Above-average recoveries in natural matrix spikes indicate positive matrix interferences and a possible high bias in the data. Below-average recoveries in natural matrix spikes indicate negative matrix interferences. For the soil matrix, several inorganic analytes showed multiple recoveries of greater than 150%. This may indicate a positive matrix interference for barium and cadmium. No other trends in matrix interferences were noted.

Table E-3. Recovery of Analytes in Natural Matrix Spike Samples (Continued)

ELEMENT/COMPOUND	SAMPLE SITE ID	SAMPLE CONC (µg/g)	MATRIX SPIKE SAMPLE (µg/g)	MATRIX SPIKE DUPLICATE SAMPLE (µg/g)	LEVEL OF SPIKE	MS PERCENT RECOVERY D1 (%)	MSD RECOVERY D2 (%)	AVERAGE RECOVERY (%)
Copper	S5SD1	22.4	177	173	100	145	141	143
	S091B172	9.52	133	132	100	121	121	121
	S8SD4	33.9	143	138	100	107	103	105
	S091B17	8.5	130	132	100	120	122	121
Manganese	S5SD1	600	620	570	100	89	92	90
Molybdenum	S5SD1	LT 4.0	1080	1090	640	169	170	170
	S091B172	LT 4.0	879	872	640	137	136	136
	S8SD4	LT 4.0	934	933	640	146	146	146
	S091B17	LT 4.0	866	777	640	135	121	128
Nickel	S091B172	11.6	1340	1340	1000	132	132	132
	S8SD4	28.9	1580	1550	1000	154	151	152
	S091B17	LT 7.5	1380	1350	1000	138	135	136
Lead	S091B172	17.2	538	549	400	129	132	130
	S8SD4	24	625	627	400	147	148	148
	S091B17	38.4	558	549	400	127	125	126
Antimony	S091B172	LT 82	4860	5030	5000	97	101	99
	S8SD4	LT 82	6020	5900	5000	120	118	119
	S091B17	LT 82	4810	4430	5000	96	89	92
Selenium	S091B172	LT 12.5	3010	3050	2500	120	122	121
	S8SD4	LT 12.5	3680	3680	2500	147	147	147
	S091B17	LT 12.5	3940	3140	2500	122	126	124
Thallium	S091B172	LT 12.5	3240	3180	2500	130	127	128
	S8SD4	LT 12.5	3550	3470	2500	142	139	140
	S091B17	LT 12.5	3120	3120	2500	125	125	125
Zinc	S5SD1	422	2100	1980	1000	148	139	144
-	S091B172	32.9	1340	1330	1000	130	129	130
	S8SD4	87.3	1620	1620	1000	149	149	149
	S091B17	40.9	1410	1410	1000	135	135	135

3.2 PRECISION

Precision is defined as the relative percent difference between duplicate samples. Relative percent difference (RPD) is defined:

 $RPD = 100 \times (D1 - D2)/[(D1 + D2)/2]$

RPD =Relative Percent Difference

D, =Characteristic Sample

D, =Duplicate Sample

The agreement between matrix spikes and matrix spike duplicate samples was utilized to assess laboratory precision. Analytical data are checked before acceptance into IRDMIS for adequate precision based on matrix spike/matrix spike duplicate results. Field duplicates assess the precision of field sampling techniques and spatial variability of contamination. RPD for field duplicates will also be affected by the precision achieved in the laboratory. Environmental variability decreases the degree of precision possible between field duplicates over the precision that is expected from laboratory duplicates.

Two groundwater matrix samples were used to assess the degree of precision achieved for field duplicate sample collection. Not all analytes were detected in these duplicates. Detected analytes are presented in Table E-4.

Table E-4. Degree of Precision — Groundwater

Element/Compound	SAMPLE NOS.	RPD (%)
Nitrate	91B15/91B15D	5.8
Nitrate	91B18/91B18D	18.0
Acetone	91B15/91B15D	5.7
Acetone	91B18/91B18D	
Lead	91B18/91B18D	16.2
Lead (lab duplicate)	91B18D	3.5
Aluminum	91B18/91B18D	5.0
Barium	91B18/91B18D	4.9
Calcium	91B18/91B18D	2.4
Cobalt	91B18/91B18D	16.4
Chromium	91B18/91B18D	25.0
Copper	91B18/91B18D	0.0

The RPD was relatively high for several analytes, i.e., barium, chromium, potassium, magnesium, and manganese, indicating that a greater environmental variability exists for the soil matrix, and perhaps a greater degree of variability is introduced through sampling the sediment matrix.

There were no soil matrix field duplicate samples collected to assess the degree of precision achieved between field duplicates.

A limited number of samples were available to assess the precision between field duplicates. In general, the relative percent difference between field duplicates was considerably higher (lower precision) than between lab duplicates indicating a considerable degree of environmental variability.

3.3 REPRESENTATIVENESS

Representativeness is defined as the degree with which the data collected accurately and precisely characterize the media being sampled. Sampling protocols specified in the field sampling plan were designed to ensure the collection of representative samples. Blank samples were collected to assess the impact of sample collection, preparation, and decontamination procedures on analytical results. Trip blanks, consisting of laboratory reagent water placed in VOC sample containers, accompanied each shipment of samples for VOC analysis to determine if contamination detected may have been introduced during sample handling, shipment, or storage.

Equipment rinse blanks were prepared by pouring analyte-free water through a decontaminated sample collection device and collecting the water in sample containers. Equipment rinse blanks were analyzed for parameters similar to those of the related samples collected by the sampling device.

Fourteen rinse blanks were collected and analyzed. The following elements and compounds were detected in equipment rinse samples: Al, Ba, Ca, Fe, Mn, Pb, TOC, TRCLE, and Zn. Aluminum was detected in the majority of the rinse samples at concentrations between 157 and 276 µg/l. Calcium was detected in all samples at concentrations between 3370 and 9480 µg/l. Zinc, manganese, barium, and iron were detected in multiple samples at maximum concentrations of 847, 44.2, 66.5, and 219 µg/l, respectively. Lead, TOC and TRCLE were each detected in one rinse sample at 4.28, 9.51, and 5.3 µg/l respectively. Additional equipment rinse sample analyses included: four for PCBs, four for explosives, and nine for BNAs. No contaminants were detected by these analyses.

All analytes detected in rinse blanks were also detected in the corresponding environmental samples. Most of the contamination found in CQC rinse blanks is inorganic and is presumably the result of residuals remaining on field equipment after decontamination. Levels detected are very low and are considered to be unlikely to influence subsequent samples to an unacceptable degree.

Deviations from work plan requirements were noted and accounted for. Upon completion of this process, analytical results in the IRDMIS data base were compared to those required by the chain of custody to establish that results for all samples taken were indeed in the data base. The result of this process is summarized in Table E-7. Completeness of the suites of analyses performed was confirmed in the generation of Tables 5-5 through 5-9 of the ESI report. In the course of this process, deficiencies in the IRDMIS data set were noted.

Based on this process, the following are established:

- All differences between samples required in the work plan and those actually collected in the field are accounted for by decisions made as a result of field conditions, or inability to locate a SWMU site.
- In some cases, samples were collected and analyzed in excess of work plan requirements (i.e., more samples were collected than the minimum required, or analyses not specified were performed).
- In only two cases were an analysis or suite of analyses required by work plan and chain of custody not reported by the analytical lab in IRDMIS: Pesticides/PCBs for groundwater sample number W2-17 and TOC for subsurface soil sample number 91B12.
- The following required correction in the IRDMIS Data Base:

Media File Code: CSO

- Site ID number <u>91B02</u> with Field Sample numbers S091B12 and S091B12C should read <u>91B12</u>.
- Site ID numbers S14S01, S14S02, S14S03, S14S04, S15S01, S15S02 with Site Type BORE should read SURF.
- Site ID number <u>S10B1</u> with Field Sample numbers S10B11-C, S10B12-C, S10B13-C, S10B14-C, and S10B16-C should read <u>91B11C</u>. In addition, all site ID's labeled <u>91B11</u> should read 91B11C.
- Field Sample Number S10B11-C with Test Name NIT and Depth reading <u>0.500</u> should read <u>0.00</u>.
- Site ID number 91B11D with Field Sample number S091B110 and depth <u>0.500</u> should read 0.00.
- For consistency and to facilitate computer searches of the database, all Sample ID and Field Sample numbers containing the letter "O" should read the numeral zero, "0".

Media File Code: CSE

- Site ID numbers S27S01 and S27S02 should be moved to Media File Code CSO/Site Type SURF.
- Site ID number S35S01 should be moved to Media Code CSO/Site Type SURF.

Media File Code: CGW

Site ID number 91B23 with Depth reading 8.00 should read 6.00.

These corrections have been made.

Table E-7 (Continued)

SWMU NO. — NAME	ENVIRONMENTAL MEDIA	NUMBER OF SAMPLES		TCL VOC		SVOC		трн		T0C	NTRATES	ဟ	TAL		TCL PEST/ PCBs	ä	EXPLOSIVES	
15—PROPELLANT	GROUNDWATER	2-2-3	_	2-2-3	-	2-2-3	-				2-2-3	-						
FACILITY	SURFACE WATER																	
	SUB-SURFACE SOIL	10-6-6	-7					2-2-3	-		10-6-6	7						
	SURFACE-SOIL	2-2-3	_					2-2-3	-									
	SEDIMENT																	
16—BURNING	GROUNDWATER	2-2-2		2-2-2		2-2-2					2-2-2		2-2-2				2-2-2	
GROUND	SURFACE WATER																	
	SUB-SURFACE SOIL	10-8-8	×					2.2.2				-	10-8-8	×			10-8-8	¥
	SURFACE-SOIL	4-4-4						4-4-4					4-4-4				4-4-4	
	SEDIMENT																	
17—DEMOLITION	GROUNDWATER	2-2-3	1	2-2-3	-	2-2-3	-				2-0-3	N.	2-2-3	-			2-2-3	-
PIT	SURFACE WATER																	
	SUB-SURFACE SOIL	10-4-4	L					2.4.4	Ľ				10-4-4				10-4-4	_
	SURFACE-SOIL	2-2-2						2-2-2					2-2-2				2-2-2	
	SEDIMENT	2-2-2						2-2-2					2-2-2				2-2-8	
26-NORTH TNT	GROUNDWATER	2-2-2		2-2-2		2-2-2					2-0-2	Σ	2-2-2		. =		2-2-2	
BURIAL PIT	SURFACE WATER																	
	SUB-SURFACE SOIL	2-3-4	z	2-3-4	z	2-3-4							2-3-4	z			2-3-4	z
	SURFACE-SOIL	2-2-2											2-2-2				2.2.2	
	SEDIMENT	1:1:1											1-1-1				1-1-1	

Table E-7 (Continued)

- PCBPesticide analysis of semple not reported in IRDMIS.
 Site of SWM/U 8 not located; no Work-Plan-required-samples taken.
 Four sediments samples collected near presumed location of SWM/U 8; not required by Work Plan; one sample was split by analytical tab and duplicate analyses were performed.
 Samples from 6 depths at felled well 91811 ware submitted for enalyses in excess of Work Plan requirements; samples from 5 intervals designated were taken from the boring in which well 91811 was completed and are labeled 918111).
 - Wells AAD14, AAD15, 2-19 and 2-20 were not serviceable or not located.
- Analyses requested on Chein of Custody in excess of Work Plan requirements.
- Samples teken at 6 depths in boring 91B12 vice 5 required by Work Plan.

 TOC anelysis on sample 91B12 not included in IRDMIS detebase.

 Leb roplicate or floid duplicate on one sample.

 Shallow depth of water teble resulted in 2 fewer samples at each of wells 91B14 and 91B15 than maxima required by Work Plan.

 Shallow water tebles et borings 91B16 and 91B17 resulted in fewer semple at each than maximum required by Work Plan.

 Only one sample taken at boring 91B18 and 3 et 91B19 beceuse of shallow water table.
- Analysis for NiT, not required by COC, performed by Leb.
- One semple in excess of Work Plan requirement taken at boring 91B21. One field duplicate was also taken at 91B21. Two samples each collected from 91B22 end 91B23. One sample location was found to be dry end no sample was collected.

REFERENCES

USATHAMA (1991) User's Manual The Installation Restoration Data Management Information System, Potomac Research, Inc., Aberdeen Proving Ground, MD.

Jacobs Engineering (1991) Anniston Army Deport Quality Control Plan, Washington, D.C.

U.S. EPA (1988) Functional Guidelines for Evaluating Organics Analyses.

U.S. EPA (1988) Functional Guidelines for Evaluation Inorganics Analyses.

USATHAMA (1990) Quality Assurance Program, Aberdeen Proving Ground, MD.

Appendix F
Surface Soil Data

Site Site
Type ID
SURF S10S01

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data Quals		x xx xx x xx xxx
Flag . Codes	 -	
Unit Meas.		990 090 090 090 090 090 090 090 090 090
Conc.	5130 9300 10 10 242 120 7.5 208 50 50 12.7 21.4 25.9 4.75 3.38 3.38	1500 1240 8.70 E -2 1.01 1.22 2.5 499 1.27 2.5 2.5 2.5 2.5
Meas. Boot.	נו מנו פלכנו נו פ	5 5555 55 55 5 55 555
Analyte Description	Nitrite, nitrate - nonspecific Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Gadmium Cadmium Chromium Cobalt Copper Vanadium Zinc	Selenium Selenium Total organic carbon Mercury Silver Cyanide 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1,3,5- trinitro-1,3,5-triazine * Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate 2,6-Dinitrotoluene PETN / Pentaerythritol tetranitrate / 2,2-Bis[(nitrooxy)me* 2,-Bis[(nitrooxy)me* 2-Nitrotoluene 3-Nitrotoluene 3-Nitrotoluene 3-Nitrotoluene
CAS No.	14797-55-8 7429-90-5 7429-90-5 7439-92-1 7439-95-4 7440-02-0 7440-09-7 7440-36-0 7440-36-0 7440-41-7 7440-41-7 7440-62-2 7440-62-2 7440-62-2	7782-49-2 7439-97-6 7440-22-4 57-12-5 118-96-7 121-14-2 121-82-4 2691-41-0 479-45-8 55-63-0 606-20-2 78-11-5 88-72-2 99-35-4
Meth/ Matrix	99 /s 1814/s	00 /s J806/ JC02/s KY04/ LW32/s
Lab Lab Anly. No.	PC 37575	PC 37575
Sample Date	03-FEB-92	0.5 03-FEB-92
Depth		0.0
Field Sample No.	\$10S01	\$10501

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

					Sampling	Sampling Date Range: 01-JAN-91	: 01-JAN-91 24-OCT-94			
Field		Sample		Lab	Meth/			Meas.		Unit
Sample No.	Depth		Lab	o Anly. No. Matrix CAS No.	Matrix	CAS No.	Analyte Description	Bool.	Conc.	Meas.
			:					;	:	1
S10S01	0.5	0.5 03-FEB-92	S	37575	LW32/S	LW32/S 99-65-0	1,3-Dinitrobenzene	-1	.249	990
						000	/ M: 4-1-4-1	-	1,6	000

0.5 0.5

Site Site Type ID

S10S02

S10S02

Data Quals K		* ** ** * ** **
Flag Codes	form	ပ
Unit Meas. 1000 UGG UGG UGG UGG		990 990 990 990 990 990 990 990 990 990
Conc. .249 .245 4.14 3650 9600 20.4	7.5 236 236 50 12.5 12.7 24.7 24.7 26.7 10.9 10.9 20.8	1910 12.4 17900 8.70 E - 2 1.21 1.22 1.28 .499 1.27 2.5 2.5 2.5
Meas. Bool. LT LT	ין א יין א	5 555 55 55 55
Analyte Description 1,3-Dinitrobenzene 4-Nitrotoluene Nitrite, nitrate - nonspecific Aluminum Iron Lead Magnesium	Molybenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Vanadium	Calcium Selenium Total organic carbon Mercury Silver Cyanide 2,4.6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1,3,5- trinitro-1,3,5-triazine * Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate 2,6-Dinitrotoluene PEIN / Pentaerythritol tetranitrate / 2,2-Bis[(nitrooxy)me* 2-Nitrotoluene 3-Nitrotoluene
CAS No. 99-65-0 99-99-0 14797-55-8 7429-90-5 7439-92-1 7439-92-1 7439-95-4	7439-98-7 7439-98-7 7440-02-0 7440-23-5 7440-38-2 7440-39-3 7440-43-9 7440-43-9 7440-43-9 7440-62-2	7440-70-2 7782-49-2 7439-97-6 7440-22-4 57-12-5 118-96-7 121-14-2 121-82-4 2691-41-0 479-45-8 55-63-0 606-20-2 78-11-5
Meth/ Matrix LW32/S 99 /S JS14/S		00 /s JB06/ JC02/s KY04/ LW32/s
Lab Anly. No. PC 37575 PC 37583		37583
Lab #		2
Sample Date 03-FEB-92 03-FEB-92		03-FEB-92

0.5

\$10502

^{* -} Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ---- SURF S10S02

\$11801

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

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conc.	25.249	. 245 9600 27000	10 517	115	5.4	110	50	7.0 7	2.2	543	427	7.9	5.1	5.3		5.1	997	7.7	1640			.70 E -2	1.01	.22	53		.251	51		667	1.27		2.5			2.5	L C	505.
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De	1,3,5-Trinitrobenzene 1,3-Dinitrobenzene	4-Nifrotoluene Aluminum Iron	Lead Magnesium	Manganese	Nickel	Potassium	Sodium	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	vanadium	21nc	Catcium	Selenium	lotal organic carbon	Nitrite, nitrate - nonspecific	Antimony	Mercury	Silver	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	<pre>PETN / Pentaerythritol tetranitrate / 2 2-Bis [/nitrocklymax</pre>	2. L'alstotolione 2. Witnotolione	ב-אורוסרטומפטפ
CAS No.	99-35-4	7429-90-5 7439-89-6	7439-92-1 7439-95-4	7439-96-5	7440-02-0	2440-09-7	7440-23-5	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7-79-044/	7.4.0-00-0	7-01-0441	7-64-7011		14797-55-8	7440-56-0	7,10 33 1	4-77-044/	2/-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		506-20-2	ر8-11-5	88-72-2	7.77.00
Meth/ Matrix	LW32/S	JS14/S																		s .	/ \c	JB06/	3007/2	KY04/	LW32/S													
Lab Lab Anly. No.		PC 37486																70/22																				
Sample Date	03-FEB-92	04-FEB-92																0/- 550-03																				
Depth	0.5	0.5															-	C	,																			
Field Sample No.	S10S02	\$11801																c11cn1	2																			

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-0CT-

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Conc.	.251	.25	.245	1570	- 1		8.70 E -2	1.01	1.22	۶.	1	9:	ic.	007	1.27		2.5		ر. ا	2.5	505	.25	χ	.249	.245	1020		8.70 E -2	1.01	720 0	560 00	10	544	24.1	7	7.5	877	20	12.5	82.9	12.7
Meas. Bool.	בו	בב	5		2	2	-	L1	_	5	:	<u>.</u> :	_	=	: '		ב		<u>-</u>	5		; <u> </u>	i <u></u>	i	-1		S	5							-	Ľ		5	۵.	L	2
Analyte Description	3-Nitrotoluene	1,3,5-Trinitrobenzene 1,3-Dinitrobenzene	4-Nitrotoluene		Nitrite, nitrate - nonspecific	Antimony	Mercury	Silver	Cyanide	2,4,6-Trinitrotoluene / alpha-	Finitrotoluene	Z,4-Dinitrotoluene	trinitro-1.3.5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PEIN / Pentaerythritol tetranitrate / 2.2-Bis[Cnitrooxv)me*	2-Nitrotoluene	3-Nitrotoluene	1.3.5-Irinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	ڼ	Nitrite, nitrate - nonspecific	Mercury	Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	וומון ומש	Antimony	Arsenic
CAS No.	99-08-1	99-35-4 99-65-0	0-66-66		14797-55-8	7440-36-0	7439-97-6	7440-22-4	57-12-5	118-96-7	٠ /١ /١	121-14-6	+ -70-171	2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5	88-72-2	99-08-1	99-35-4	99-65-0	0-66-66		14797-55-8	7439-97-6	7440-22-4	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	7-60-05-7	7440-23-5	0-87-055/	7440-36-0	7440-38-2
Meth/ Matrix	LW32/S				s/ 66	65	/90gr	JC02/S	KY04/	LW32/S																s/ 00	s/ 66	JB06/	JC05/S	JS14/S											
Lab Lab Anly. No.	PC 37486			PC 37494																						PC 37516															
Sample Date	92			04-FEB-92																						0.5 04-FEB-92															
Depth	0.5			0.5																						0.5															
Field Sample No.	\$11501			S11SOR																						S11S02															
Site 1D	S11S01																									S11S02															
Site Type	SURF																																								

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-OCT-

24-0CT-94

					sampring	Date Range: UI-JAN-YI	1-JAN-Y Z4-UC -Y4					
Field		••		Lab	Meth/			Meas.		Unit	Flag	Data
Sample No.	Depth	Date	Lab	Lab Anly. No.	Matrix	CAS No.	Desc	Bool.	Conc.	Meas.	Codes	Quals
S11S02	0.5	0	L Dd	37516	3/7131	2-02-0772		:			:	1
!						7440-41-7	Bory Lin		***	ກວວ		
						6-27-0772	Cadaira	-	.27	201		
						7440-47-3	Chromium		21.4	550		
						7440-48-4	Cobalt		10.4	99n		
						7440-50-8	Copper		20.8	ยยก		
						2-29-0552	Vanadium		43.6	990		
						9-99-0552	Zinc		28.4	990		
						2-02-0552	Calcium	-	109	990		
						7782-49-2	Selenium	: <u>-</u>	12.4	990		
					KY04/	57-12-5	Cyanide	-	1.22	ngg		
					LW32/S	118-96-7	2,4,6-Trinitrotoluene / alpha-	ב	.25	DDU		¥
							Trinitrotoluene					
						121-14-2	2,4-Dinitrotoluene	ב	.251	บอด		~
						121-82-4	RDX / Cyclonite / Hexahydro-1,3,5-	5	.51	DBU		¥
						0 17 1070	trinitro-1,5,5-triazine *	!		;		
						0-14-1607	Cyclotetramethylenetetranitramine	5	667	กดิด		×
						4/9-45-8	Tetryl / N-Methyl-N,2,4,6-	_	1.27	DOO		×
							tetranitroaniline / Nitramine / *					
						0-59-65	Nitroglycerine / 1,2,3-Propanetriol	ב	2.5	กดิด		¥
							trinitrate					
						2-02-909	2,6-Dinitrotoluene	5	٠,	ออก		¥
						78-11-5	PETN / Pentaerythritol tetranitrate /	ר	2.5	UGG		×
	-						2,2-Bis[(nitrooxy)me*					
						88-72-2	2-Nitrotoluene	۲	.505	ออก		×
						99-08-1	3-Nitrotoluene		.251	990		¥
						99-35-4	1,3,5-Trinitrobenzene		.25	ออก		~
						0-59-66	1,3-Dinitrobenzene		.249	UGG		×
	,					0-66-66	4-Nitrotoluene	ב	.245	99N		¥
STISOR	0.5	04-FEB-92	ပ	37494	JS14/S	2429-90-5	Aluminum		6100	990		
						2439-89-6	Iron		27000	บบ		
						7439-92-1	Lead	ב	10	DDO		
						7439-95-4	Magnesium		285	บยต		
						2439-96-5	Manganese		87.8	UGG		
						2439-98-7	Molybdenum	ב	7	กลด		
						7440-02-0	Nickel		12.5	UGG		
						2-60-0552	Potassium		294	ngg		
						7440-23-5	Sodium	-1	20	DBU		
	•					7440-28-0	Thallium	5	12.5	กลิต		
						7440-38-2	Arsenic	Ş	12.7	UGG	-	
						7440-39-3	Barium		8.83	UGG		
						7440-41-7	Beryllium		.559	nge		
						7440-43-9	Cadmium	ב	.427	nec		
						2440-42-3	Chromium		19.6	UGG		

S1150R

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data Quals	:																										¥	:	¥	×	×	×	7	¥	¥
Flag Codes	!													-																					
Unit Meas.	090	991	990 NGC	990	99N	990	990	990	991	990	990	990	990 1139	990	nee	99N	990	990	990	99N	DgO	99n	990	200	250	990	990		990	ngg	ngc	990	-	กูก	DGG
Conc.	13.5	29.4	47.3	140	12.4 3430	18000	10	138	6.36	11.4	245	50	(2.5 (2.5 (3.0)	12.7	4.87	.531	727	8.54	20.4	35.9	54.2	165	12.4	3900	د	1.22	52.	i	ري: دي:	.51	1.01	1.27	2 5	د. ع	5.
Meas. Bool.	-				5		11	5				5:	5 <u> </u>	; <u>2</u>	ב		5					!	_	<u>-</u>	: :	; -	: 5	!	<u>.</u>	5		5	-	5	רַז
De	Cobalt	Copper Vanadism	Zinc	Calcium	Selenium Aluminium	Iron	Lead	Magnesium Mandanase	Molybdenum	Nickel	Potassium	Sodium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Copper	Vanadium	Zinc	Calcium	zetenium zetel zezesie seetes	Merciry	Silver	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	Z,4-Dinitrotoluene	<pre>KDX / Cyclonite / Hexahydro-1,3,5- trinitro-1 3 5-triazine *</pre>	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / * Nitroglycerine / 1 2 %-Dropspetriol	trinitrate	2,6-Dinitrotoluene
CAS No.	7440-48-4	7440-50-8	9-99-057	7440-70-2	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-98-7	7440-02-0	2440-09-7	7440-23-5	7440-36-0	7440-38-2	7440-39-3	7-14-0-47	7440-43-9	7440-48-4	7440-50-8	7440-62-2	7440-66-6	7-07-055	7-64-7911	9-26-6272	7440-22-4	57-12-5	118-96-7	121 17	121-14-2	121-82-4	2691-41-0	479-45-8	55-63-0	3	606-20-2 78-11-5
Meth/ Matrix	JS14/S				JS14/S																		9	JB06/S	JC02/S	KY04/S	LW32/S								
Lab Lab Anly. No.	37494				34541																														
Lab	: ₂				34																		2/5/1	1											
	· <u>~</u>				PC 34																		DC 2/5/1												
Sample Date	04-FEB-92 PI				2	,																	ć	2											
																								2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2											
. Depth	04-FEB-92				31-JAN-92 PC													•					21. 141.02	2 2 20 000											
Field Sample No. Depth	0.5 04-FEB-92				0.5 31-JAN-92 PC																		0 5 31-14N-02 BC	2 2 20 000											

^{* -} Analyte Description has been truncated. See Data Dictionary

Site Site Type ID

S14S02

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

Data Quals	<u> </u> ×	>	: 54	: ×	: ×	¥																									×		æ	×	7	< ⊻	•	×	7
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Unit Meas.	חפפ	551	990	990	DOU	DBO	990	DOO	DDU	99n	ogn :	990	990	990	990	950	DDN	990	99N	990	990	DON	neg	990	חנים	990	990	990	DBO	990	990		990	990	9911	990		DDN	001
Conc.	2.5	505	.251	52:	.249	.245	8.70 E -2	2150	00069	10	138	39.7	4 b	27.5	50	12.5	82.9	12.7	11.7	.25	.427	8.26	2.5	6.19	C. 21	727	12.4	5720	1.01	1.22	.25		.251	.51	007	1.27		2.5	v
Meas. Bool.	5	-	: 5	ב	ב	ב	[]			<u>-</u>	ב	,	<u> </u>	<u>-</u>	: 5	: 5	ב	QN		L1	ב	1	-				רַ		٢,	רז	1		[1	<u>_</u>	<u>-</u>	: 5	i	ב	_
Analyte Description	PETN. / Pentaerythritol tetranitrate /	Z-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Aluminum	Iron	Lead	Magnesium	manganese Molyclossis	Nickel	Potassim	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copair	Copper	7 ioc	Calcium	Selenium	Total organic carbon	Silver	Cyanide	2,4,6-Irinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	<pre>RDX / Cyclonite / Hexahydro-1,3,5- trinitro-1 3 5-triazine *</pre>	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate 2 6-Dinitrotoluene
CAS No.	78-11-5	88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	7439-97-6	7429-90-5	7439-89-6	7439-92-1	7/20-02-5	7/30-08-7	7-84-454	2-60-0752	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-5	4-04-044/	7440-20-8	770-077	7440-70-2	7782-49-2		7440-22-4	57-12-5	118-96-7	;	121-14-2	4-78-171	2691-41-0	479-45-8		55-63-0	606-20-2
Meth/ Matrix	LW32/S						3/908r	JS14/S																				s/ 00	JC02/S	KY04/S	LW32/S								
Lab Lab Anly. No.	34541						34550																					34550											
Lab /							ည																					ည											
Sample Date	31-JAN-92						31-JAN-92																					31-JAN-92											
Depth	0.5					•	0.5														-							0.5											
Field Sample No.	S14S01						S14S02																					S14S02											

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ---- SURF S14S02

\$14803

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

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Flag Codes	: : :																	-									-														
Unit Meas.	000	ngg	990	200	200	990	990	990	990	990	99n	990	990	990	000	nge	990	UGG	nee	nec	กดด	บอด	990	ngc	990	nee	ngg	nge	nge	OGG	ยยก	nge		9 9 0	990		990	990		ออก	990
Conc.	2.5	.505	.251	97.	2/2	8 70 5 - 2		14000	9	138	29.5	7	7.5	228	20	12.5	82.9	12.7	4.87	.25	.427	10.3	5.92	15.6	27.1	6.04	128	12.4	5840	1.01	1.22	.25		.251	.51		667.	1.27	1	7. 2	5.
Meas. Bool.	בּן	-	5:	<u> </u>	<u> </u>	: <u>-</u>	5		H	-	i	LT	5		<u>-1</u>	LT	LŢ	Š	LT	Lī	רַ									LT	ב	11		ר			=		!	5	1
Analyte Description	PETN / Pentaerythritol tetranitrate / 2 2-Risfonitrooxylme*	2-Nitrotoluene	3-Nitrotoluene	1,3,7-II III II ODENZENE 1 %-Digitrohonjono	(,) Difficional constant (,) Difficional Const	Mercino	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Total organic carbon	Silver	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	trinitate / 1,2,3-Propanetriol	2,6-Dinitrotoluene
CAS No.	78-11-5	88-72-2	99-08-1	99-65-0	0-66-66	9-26-6272	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	9-99-055	7440-70-2	7782-49-2		7440-22-4	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8	0-27-33	0-60-66	606-20-2
Meth/ Matrix	LW32/S					JR06/S	JS14/S	•																					s/ 00	JC02/S	KY04/S	LW32/S									
Lab Lab Anly. No.	34550					34568																						!	34568												
Lab	S S					D C	-																						S C												
Sample Date	31-JAN-92					31-JAN-92																							31-JAN-92												
Depth	0.5					0.5	}														-							,	5.0												
Field Sample No.	\$14802					\$14803																							S14S03												

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

76-130-76

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	Flag																						,	-																								
	U n it Meas.		9 90		9 90	990	990	וופפ	35	990	กาก	99N	99N	990	000	990	9911	990	991	200	201	990	200	กอก	990	ออก	99N	99N	DOC	990	990	100	990	991	990	990	990	9911	3	990	990)) }	990	990	5	DOC		990
	Conc.		2.5		.505	.251	.25	672	27.5	1 02 0	ц	2560	24000	13.6	219	9.79	8.46	21.3	389	20	72.5	2 0 0	13 7	7.7	74.7	828	.427	14.2	12.9	30	43.3	92.2	155	12.4	3360	1.01	1.22	χ.		.251	.51		667.	1.27	i	2.5		5.
	Meas. Boot.		L1		-1	ב	רו	17	; <u>-</u>	; :	5									-	: <u>-</u>	; <u>-</u>	; 5	2			-1							17		LT	L 1	-		11	LI		LI	LI	i	П		11
Date Range: 01-JAN-91 24-OCT-94	Analyte Description		PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	Z-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercilia	Alimin T	Atumoral	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic			Servicium 6-1-1:	בים שלו שלו שלו שלו שלו שלו שלו שלו שלו שלו	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Total organic carbon	Silver	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene
	CAS No.		78-11-5	6	7-71-99	99-08-1	99-35-4	0-69-66	0-66-66	9-20-0272	7,20-00-5	6-04-4741	0-40-4047	1459-92-1	7439-95-4	2439-96-5	7439-98-7	7440-02-0	2440-09-2	7440-23-5	7440-28-0	7440-36-0	2-82-0772	2-02-0772	7.4.0-4.7	7-14-0447	7440-43-7	7440-47-5	7440-48-4	2440-50-8	2-29-0552	9-99-057	2440-20-5	7782-49-2		7440-22-4	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		2-02-909
Sampling	Meth/ Matrix	:	LW32/S							JR067S	1517.70	2014/2																							s/ 00	JC02/S	KY04/S	LW32/S										
	Lab Lab Anly. No.		C 34568							PC 34576																									PC 34576													
										0.5 31-JAN-92 P																									31-JAN-92 P													
	_		۲. د.							0.5																									0.5													
			\$1480\$							S14S04																								;	S14S04													
		1 0 0 0								S14S04																																						
	Site Type		Š																																													

^{* -} Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ---- SURF S14S04

\$15501 \$15502

S16S01

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

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flag Codes	† t							۵							-				-																						
Unit Meas.	990	DDN	99n	201	ອອກ	DDU	990	99N	DDU	990	990	99N	DDN	990	990	บบก	990	990	วอก	000	nge	990	990	991	991	991	991	990	990	990		ngg	nec		nee	990		ภอก		ายย	990
Conc.	2.5	.505	.251	2,0	.245	28.3	108	107	0009	26000	203	457	780	7	9.54	201	20	12.5	12.7	925	52	2,34	23.5	16.3	82.5	27.3	648	263	12.4	.25		.251	.51		667.	1.27		2.5	ı	₹.	5.5
Meas. Bool.		LT	ב ב	ב ב	; 5									L1			רו	ר	Ð		ב								17	5		ר	רו		11	ב		ב	1	<u>.</u>	<u>.</u>
Analyte Description	PETN / Pentaerythritol tetranitrate / 2.2-Bis[(nitrooxv)me*	2-Nitrotoluene	3-Nitrotoluene 1 % S-Trinitrohenzene	1.3-Dinitrobenzene	4-Nitrotoluene	Total petroleum hydrocarbons	Total petroleum hydrocarbons	Total petroleum hydrocarbons	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate 2 (n. i. i. i. i.	Z,6-Dinitrotoluene	rein / Fentaerythritoi tetranitrate / 2,2-Bis[(nitrooxy)me*
CAS No.	78-11-5	88-72-2	99-08-1	0-59-66	0-66-66				7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	9-99-057	7440-70-2	7782-49-2	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		200-50-2 20 11 E	6-11-07
Meth/ Matrix	LW32/S					s/ 00	s/ 00	s/ 00	JS14/S																					LW32/S											
Lab Lab Anly. No.	34576					34525	34533	345330	36587																																
Lab	ည					ည	ည		ည																																
Sample Date	31-JAN-92					31-JAN-92		;	01-FEB-92																																
Depth	0.5					0.5	0.5	,	0.5																																
Field Sample No.	\$14504					\$15801	\$15502		S16S01																																

* - Analyte Description has been truncated. See Data Dictionary

Data Quals

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

	90	Codes								-						
	ini t	Meas.		9911	990	050	UGG	nge	nge	nee	990	990	990	nee	nee	0
		Conc.		.505	.251	52:	.249	.245	546	82.9	8.70 E -2	1.01	1.22	15000	26000	7 27
	N C C C C C C C C C C C C C C C C C C C	Bool.			. 5		17	-		Q.	ב	5	5			
01-JAN-91 24-0CT-94		Analyte Description	- 11 11 11 11 11 11 11 11 11 11 11 11 11	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Total petroleum hydrocarbons	Antimony	Mercury	Silver	Cyanide	Aluminum	Iron	רבים
רונפ ואן Sampling Date Range: 01-JAN-91	Meth/	Matrix CAS No.		LW32/S 88-72-2	99-08-1	66-35-4	0-59-66		s/ 00					1814/8 7429-90-5	7439-89-6	7439-92-1
ĸ		Anly. No.							PC 36587 (0.				ьс 36609		
	Sample	Date		01-FEB-92				:	0.5 01-FEB-92					0.5 01-FEB-92		
		Depth	:	0.5			•	,	0.5					0.5		
	Field	Sample No.		S16S01				, , , , , ,	S16S01				;	S16S02		
	Site Site													S16S0Z		

		במ				Meas.		ä	Flag
	Lab	Lab Anly. No.	Matrix	CAS No.	Analyte Description	Bool.	Conc.	Meas.	Codes
	:		1			1 1	1 1 1 1 1 1	1	
~	ည	36587	LW32/S	88-72-2	2-Nitrotoluene	11	.505	ngg	
				99-08-1	3-Nitrotoluene	-	.251	990	
				99-35-4	1,3,5-Trinitrobenzene	L1	.25	990	
				0-59-66	1,3-Dinitrobenzene	17	.249	990	
				0-66-66	4-Nitrotoluene	-1	.245	990	
~	PC	36587	s/ 00		Total petroleum hydrocarbons		546	990	
			/ 66	7440-36-0	Antimony	QN QN	82.9	nee	-
			3/908r	2439-97-6	Mercury	-1	8.70 E -2	nee	
			JC02/S	7440-22-4	Silver	-1	1.01	nee	
			KY04/S	57-12-5	Cyanide	[]	1.22	nee	
ر در	ည	36609	JS14/S	7429-90-5	Aluminum		15000	nec	
				7439-89-6	Iron		26000	nec	
				7439-92-1	Lead		43.7	nec	
				7439-95-4	Magnesium		997	nec	
				7439-96-5	Manganese		7100	990	
				7439-98-7	Molybdenum	11	7	990	
				7440-02-0	Nickel		84.4	nge	
				2440-05-2	Potassium		771	990	
				7440-23-5	Sodium	1	20	990	
				7440-28-0	Thallium	1	12.5	กดด	
				7440-38-2	Arsenic	N	12.7	990	-
				7440-39-3	Barium		622	990	
				7440-41-7	Beryllium		7445	ngg	
				7440-43-9	Cadmium	5	.427	nge	
				2440-42-3	Chromium		15.6	nec	
				7440-48-4	Cobalt		90.8	nge	
				2440-20-8	Соррег		84.1	550 000	
				7440-62-2	Vanadium		7.77	nec	
				9-99-0552	Zinc		161	nec	
				7440-70-2	Calcium	-1	109	บขต	
			!	7782-49-2	Selenium	-	12.4	990	
			LW32/S	118-96-7	2,4,6-Trinitrotoluene / alpha-	Lī	.25	ngg	
				,	Trinitrotoluene				
				121-14-2	2,4-Dinitrotoluene	-1	.251	บยด	
				121-82-4	RDX / Cyclonite / Hexahydro-1,3,5-	ר	.51	nec	
					trinitro-1,3,5-triazine *				
				2691-41-0	Cyclotetramethylenetetranitramine	רו	664.	nee	
				479-45-8	Tetryl / N-Methyl-N,2,4,6-	11	1.27	nee	
					tetranitroaniline / Nitramine / *				
				55-63-0	Nitroglycerine / 1,2,3-Propanetriol	L	2.5	990	
					trinitrate				
				606-20-2	2,6-Dinitrotoluene	11	5.	nec	
				ر-11-8 <i>)</i>	PETN / Pentaerythritol tetranitrate /	-1	2. 5	990	
					2,2-Bis[(nitrooxy)me*				

* - Analyte Description has been truncated. See Data Dictionary

Depth

Field Sample No.

Site Site Type ID

S16S02

\$16503

S16S03

24-001-94

	Sample		Lab				Meas.		Unit	Flag	Data
Depth	Date	Lab	Anly. No.		CAS No.	Analyte Description	Bool.	Conc.	Meas.	Codes	Quals
:		:					1 1 1 1	1 1 1 1	1 1 1 1	1 1 1	
0.5	01-FEB-92	ည ၁	PC 36609		88-72-2	2-Nitrotoluene	ב	.505	990		
					99-08-1	3-Nitrotoluene	Lī	.251	990		
					99-35-4	1,3,5-Trinitrobenzene	1	52:	OGG		
					0-59-66	1,3-Dinitrobenzene	רַ	.249	990		
					0-66-66	4-Nitrotoluene	11	.245	DOU		
0.5	01-FEB-92	ည	36609	s/ 00		Total petroleum hydrocarbons		589	DOC		
				/ 66	2440-36-0	Antimony	ð	82.9	ngg	_	
				3/908L	2439-97-6	Mercury	11	8.70 E -2	nec		
				JC02/S	7440-22-4	Silver	ב		ngg		
				KY04/S	57-12-5	Cyanide	-11	1.22	99N		
0.5	01-FEB-92	ပ	36617	JS14/S	7429-90-5	Aluminum		16000	nge		
					7439-89-6	Iron		20000	ncc		
					7439-92-1	Lead		31.4	บอด		
					7439-95-4	Magnesium		582	9 9 0		
					7439-96-5	Manganese		290	ออก		
					7439-98-7	Molybdenum		7	ngg		
					7440-02-0	Nickel	ב	7.5	ngg		
					2-60-0572	Potassium		391	ngg		
					7440-23-5	Sodium	בו	20	9 9 0		
					7440-28-0	Thallium	-	12.5	990		
					7440-38-2	Arsenic	2	12.7	990	-	
					7440-39-3	Barium	,	33.1	990		
					7440-41-7	Beryllium	11	.25	nge		
					2440-43-9	Cadmium	ר	.427	ออก		
					2440-42-3	Chromium		16.7	990		
					7440-48-4	Cobalt		16.3	วอก		
	•				7440-50-8	Соррег		17.9	บบก		
					7440-62-2	Vanadium		36.9	990		
					9-99-057	Zinc		141	ngg		
					7440-70-2	Calcium	ב	109	990		
					7782-49-2	Selenium	ב	12.4	ngc		
				LW32/S	118-96-7	2,4,6-Trinitrotoluene / alpha-	17	.25	nge		
						Trinitrotoluene		į			
					121-14-2	2,4-Dinitrotoluene	-	.251	NGG		
					121-82-4	RDX / Cyclonite / Hexahydro-1,3,5-	-1	.51	ngg		
						trinitro-1,3,5-triazine *					
					2691-41-0	Cyclotetramethylenetetranitramine	_	067	1166		
					8-57-627	Tetrvi / N-Methvi-N 2 & 6-	; <u>-</u>	1 27	166		
						tetranitroaniline / Nitramine / *	;		950		
					55-63-0	Nitroglycerine / 1,2,3-Propanetriol	17	2.5	ngg		
						trinitrate		ì	;		
					606-20-2	2,6-Dinitrotoluene	17	2.	990		
					78-11-5	PETN / Pentaerythritol tetranitrate /	1	2.5	990		
						2,2-Bis[(nitrooxy)me*	i		1		

* - Analyte Description has been truncated. See Data Dictionary

Data Quals

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

r a	Lab Ality. NO.	Martin	CAS NO.	Analyte Description	Bool.	Conc.	Meas.	ပ္ပ
: 3							:	:
ر	2001	LW52/S	88-72-2	Z-Nitrotoluene		.505	990	
			99-08-1	3-Nitrotoluene	ב	.251	DOC	
			99-35-4	1,3,5-Trinitrobenzene	רו	52:	990	
			69-62-0	1,3-Dinitrobenzene	רז	.249	990	
			0-66-66	4-Nitrotoluene	ב	. 245	990	
ည	36617	s/ 00		Total petroleum hydrocarbons	1	740	990	
		\ \frac{1}{2}		Antimony	읒		บบด	_
		JB06/S		Mercury	Ц	8.70 E -2	990	
		JC02/S		Silver	LT	1.01	990	
į		KY04/S		Cyanide	Ľ	1.22	ngg	
ည	36595	JS14/S		Aluminum		9200	DOO	
			7439-89-6	Iron		24000	ngg	
			7439-92-1	Lead		64.1	990	
			7439-95-4	Magnesium		338	UGG	
			7439-96-5	Manganese	ב	.511	990	
			7439-98-7	Molybdenum	1	7	990	
			7440-02-0	Nickel	1	7.5	990	
			2-60-0552	Potassium		266	990	
			7440-23-5	Sodium	רַן	20	990	
			7440-28-0	Thattium	[1	12.5	UGG	
			7440-38-2	Arsenic	S S	12.7	UGG	-
			7440-39-3	Barium		23.6	ngg	
			7440-41-7	Beryllium		.42	DBG	
			2440-43-9	Cadmium	רַ	.427	nee	
			7440-47-3	Chromium		13.3	990	
			7440-48-4	Cobalt		15.8	UGG	
			7440-50-8	Copper		20.9	000	
			7440-62-2	Vanadium		40.5	990	
			9-99-0552	Zinc		73.4	DBG	
			2-02-0552	Calcium	1	109	000	
			7782-49-2	Selenium	11	12.4	990	
		LW32/S	118-96-7	2,4,6-Trinitrotoluene / alpha-	17	.25	990	
			121-14-2	rinitrotoluene	:			
			121-82-4	PDX / Cyclopite / Beyshydro-1 2 E.		<u>.</u>	990 900	
			2	trinitro-1 % 5-triazine *	;		ออด	
			2691-41-0	Cyclotetramethylopotetramite		9		
			6-47-627	Tetrol / N-Methyl-N 2 / K-	<u>.</u> .	664.	990 000	
				tetranitroaniline / Nitramine / *	;	1.21	กรา	
			55-63-0	Nitroglycerine / 1.2.3-Propanetriol		2.5	991	
				trinitrate	;		990	
			606-20-2	2,6-Dinitrotoluene	LT	٦.	990	
			78-11-5	PETN / Pentaerythritol tetranitrate /	LT	2.5	DOU	
				2,2-Bis[(nitrooxy)me*				

* - Analyte Description has been truncated. See Data Dictionary

Site Site
Type ID

S17S01

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data Quals	! ! !							
Flag Codes	!	-			-			
Unit Meas.	000 000 000 000	990 990 990	000 000 000 000	990 090 090	990 090 090	990 000 000 000 000	000 000 000	990 000 990
Conc.		658 82.9 8.70 E -2 1.01	1.22 3010 50000 41 265	4 487 50 50 50 50 50 50 50 50 50 50 50 50 50	12.5 12.7 9.25 2.42 427	17.2 19.6 30 72.6 212 109 12.4	1.22 .25 .251 .51	.499 1.27 2.5 .5
Meas. Bool.	55555	בבב ב	5	5 5!	ב פי	וו	לל לל	55 5 5
Analyte Description	2-Nitrotoluene 3-Nitrotoluene 1,3.5-Trinitrobenzene 1,3-Dinitrobenzene 4-Nitrotoluene	Total petroleum hydrocarbons Antimony Mercury Silver	Lyanide Aluminum Iron Lead Magnesium Manganese	Molybdenum Nickel Potassium Sodium	Thallium Arsenic Barium Beryllium Cadmium	Chromium Cobalt Copper Vanadium Zinc Calcium Selenium	Cyanide 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1,3,5- trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate 2,6-Dinitrotoluene
CAS No.	88-72-2 99-08-1 99-35-4 99-65-0 99-99-0	7440-36-0 7439-97-6 7440-22-4 57-12-5	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5	7439-98-7 7440-02-0 7440-09-7 7440-23-5	7440-28-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9	7440-47-3 7440-48-4 7440-50-8 7440-62-2 7440-66-6 7782-49-2	57-12-5 118-96-7 121-14-2 121-82-4	2691-41-0 479-45-8 55-63-0 606-20-2 78-11-5
Meth/ Matrix	LW32/S	00 /S 99 / J806/S JC02/S	JS14/S				KY04/S LW32/S	
Lab Lab Anly. No.	36595	36595	36676					
Lab	PC Dd	PC	PC					
Sample Date	01-FEB-92	01-FEB-92	01-FEB-92					
Depth	0.5	0.5	0.5					
Field Sample No.	\$16804	\$16504	\$17501					

* - Analyte Description has been truncated. See Data Dictionary

24-001-94

Site Site Type ID ---- SURF S17S01

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-OCT-

24-0CT-94

					E I John S	במרכ המושכי כו שאורץ	46-100-47					
Field Sample No. Den	Denth	Sample	- - -	Lab	Meth/	, i		Meas.		Unit	Flag	Data
		3 1	3 :		יומרו וא	יייייייייייייייייייייייייייייייייייייי	Analyte Description	Bool.	Conc.	Meas.	Codes	Ouals
S17S01 0	0.5	01-FEB-92	PC	36676	LW32/S	78-11-5	PETN / Pentaervthritol tetranitrate /				• • • •	1 1 4
							oxy)me*	;	6.2	กูกก		
						88-72-2	2-Nitrotoluene	17	.505	9911		
						99-08-1	3-Nitrotoluene	-11	.251	99n		
						99-35-4	1,3,5-Trinitrobenzene	LT	.25	990		
						0-59-66	1,3-Dinitrobenzene	17	.249	990		
		;	1			0-66-66	4-Nitrotoluene	LT	.245	990		
0 108/18	٠. د.	01-FEB-92	ည	36676	s/ 00		Total petroleum hydrocarbons		55.6	000		
					/ 66	7440-36-0	Antimony	QN	82.9	990	-	
			;		JC02/s	7440-22-4	Silver	LT	1.01	990		
	r.	01-rEB-92	٦ ت	30684	JS14/S	7429-90-5	Aluminum		4230	nee		
						2439-89-6	Iron		18000	990		
						7439-92-1	Lead		24.1	000		
						7439-95-4	Magnesium		207	nee		
						7439-96-5	Manganese		196	UGG		
						7439-98-7	Molybdenum	ב	4	UGG		
						7440-02-0	Nicket		15.4	990		
						2440-09-7	Potassium		372	ngg		
						7440-23-5	Sodium	LT	20	990		
						7440-28-0	Thallium	LT	12.5	990		
						7440-38-2	Arsenic	QN	12.7	550	- -	
						7440-39-3	Barium	ì	21.2	200	-	
						7440-41-7	Beryllium		27.5	990		
						7440-43-9	Cadmium		7 24	2271		
						7440-47-3	Chromium		. ז נייל	200		
						7440-48-4	Cobalt			200		
						7440-50-8	Copper		2.0			
						2-69-077	Vanadium		0,4	บาก การ		
						7440-66-6	7100		7.07	990		
						27,07,70	25	!	220	550		
						7782-70-2	Colonium	_ :	601	990		
					2770478	57-12-5	Secentum Conside	_ :	12.4	กิดด		
					S/2571	118-06-7	S / A-Trisitantolumas / olaba	_ !	1.22	990		
					2 / 1	2	Irinitatelmen	_	9.	000		
						121-14-2	2 4-Dinitrataluana				,	
						121-82-4	PDX / Cyclonite / Dovebudge 1.2 E	<u> </u>	277	990	ب	
							trinitro-1 3 5-triazine *	_	<u>.</u>	990		
						2691-41-0	Cve otetramethyl protestation:					
						8-57-62 7	cycloted ameniyteneledian (Familye Tetrvi / N-Methvi-N 2 / 4.		664.	99n		
) }	tetranitrosniline / Withowine / *	-	1.2.1	UGG		
					-	55-63-0	Nitrodycerise / 1 2 Z-Procestain		,		,	
							trinitrate		9.71	990	ပ	
					-	606-20-2	2,6-Dinitrotoluene	11	5.	990		
						78-11-5				!!!		

S17S02

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data Quats	:																																													
Flag Codes	1 5 1 3								}) -	-																						_		
Unit Meas.	ngg		990	990	99N	990	990	บอด	DDC	990	99n	บอด	990	990	OGG	990	กดด	990	990	990	9911	201	551	550	200	ກຸກຸກ	000	550	ngg	วรก	ngg	ngc	DOC	990	บบิด	990	990	9911	201	200	ກຸກຸກ	990 900	990	nec	990	990
Conc.	2.5	!	.505	.251	.25	. 249	.245	22.4	82.9	2.92	24000	400 00	43.6	701	1700	7	14.2	586	20	12.5	12.7	. a y	200	777	774.	, 02	30.c	74.9	8.79	94	531	12.4	31000	28000	28.6	1160	1200	7	7 7 7	0.70	000	00 5	12.5	12.7	72.2	.817
Meas. Boot.			ב	LI	-1	ב	Lĭ		QN							ב			Ľ	1	: 2	<u>}</u>		<u>-</u>	-							۲,						[]				}	<u>.</u>	2		
Analyte Description	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	Z-Nitrotoluene	5-Nitrotoluene	1,5,5-Irinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Total petroleum hydrocarbons	Antimony	Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thatlium	Arsenic	Barium	Bervillium	Cachilia	e i i do i do		Condition	Copper	Vanadium	2017	Calcium	Selenium	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassiim	Codium	1000 City	matrical	Arsenic	Barıum	Beryllium
CAS No.	78-11-5	i i	7-71-88	79-08-1	77-55-4	0-59-66	0-66-66		7440-36-0	7440-22-4	2429-90-5	7439-89-6	7439-92-1	7439-95-4	2439-96-5	7439-98-7	2440-05-0	2440-09-2	7440-23-5	7440-28-0	7440-38-2	7440-39-3	7440-41-7	6-27-0772	2-27-0772	7-87-0772	7//0-50-9	0-06-0447	7-79-044/	9-99-05-7	7-0/-055/	7.82-49-2	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0772	5-20-0772	7,440	0-07-044/	7-86-044/	7440-29-3	1-14-044)
Meth/ Matrix	LW32/S							s/ 00	/ 66	JC02/S	JS14/S																					:	3214/S													
Lab Anly. No.	PC 36684							PC 36684			PC 36897																						PC 56900													
	01-FEB-92							01-FEB-92			02-FEB-92																						U.5 UZ-FEB-92													
	0.5							0.5			0.5																					1	 													
Field Sample No.	S17S02							s17s02			\$26501																						208928													
Site Site Type ID											\$2601																						20928													

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

24-001-94

\$26501

	E la	Codes			
		Meas.			1 !!!
		Conc.		.427	
	SE CH	Bool.		5	
01-JAN-91 24-0CT-94		Analyte Description	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cadmium	
Sampling Date Range: 01-JAN-91	th/	Matrix CAS No.		1S14/S 7440-43-9	
Samp	Lab Me	Lab Anly. No. Mat		PC 36900 JS1	
	Sample	Date		0.5 02-FEB-92	
		Depth	i	0.5	
	Field	Sample No.		S26 S 02	
	Site	<u></u>		2092	
	Site	Type		SURF	

Data Quals	1 1 1 1													~	:	¥	. .		¥	×		¥		74	: ٧	•	7	<u> </u>	: ×	: <u>~</u>	: 52	•		~	•	×	: 54	₹	7	: <u>\</u>	:	¥		¥	
Flag	1										-	•																																	
Unit Meas.	1 1 1	nge	990	990	กดด	nec	nec	000	000	990 .	990	991	991	990		990	990		nec	990		990		ngg	990		ยยา	990	990	990	ngg	990	991	990		nec	9911	9	ngg	990)))	990		990	
Conc.		.427	25.2	56.9	16.3	54.8	49.5	525	12.4	1.92	82.9	8.70 F -2	t	.25	•	.251	.51		667.	1.27		2.5		5.	2.5	1	.505	.251	.25	.249	.245	1.01	1.22	52.		.251	.51	•	667	1.27		2.5		ĸ.	
Meas. Bool.									ב		Q	: 5	<u> </u>	: 5		5	<u>_</u>		ב	5		5		ב	5		_	: <u>-</u>	ב	ב	L	ב	L	<u> </u>		ב	17		-	5		ב		۲	
De		Cadmium	Chromium	Cobal I	Copper	Vanadium	Zinc	Calcium	Selenium	Cyanide	Antimony	Mercury	Silver	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /		2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Diritrobenzene	4-Nitrotoluene	Silver	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1.3.5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	
CAS No.	0 2/ 0//2	7440-47-7	7,00-47-5	7,70 50 0	2,00-0447	7-79-055	7440-66-6	7440-70-2	7782-49-2	57-12-5	7440-36-0	9-26-6572	7440-22-4	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	7440-22-4	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2 78-11-5	
Meth/ Matrix	101776	27172								KY04/S	^ &	3/908r	JC02/S	LW32/S																		JC02/	KY04/S	LW32/S											
Lab Anly. No.										PC 36897																						PC 36900													
Sample Date	_									02-FEB-92	02-FEB-92																					02-FEB-92	02-FEB-92												
Depth		:							•	0.0	0.5																				,	0.5	0.5												
Field Sample No.	208928	2000							,00,00	226501	S26S01																					S2602	S26S02												

^{* -} Analyte Description has been truncated. See Data Dictionary

\$26802

Site Type SURF

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

Data Quals	1 <u>52</u> 1 1		: <u>~</u>	· 😕	¥	¥																																					
Ftag Codes	: : :						- -												_																	-) —	-		
Unit Meas.	 UGG	991	990 000	990	ngg	ออก	วบก	ngc	990	วยูด	990	990	990	ออก	ngc	00C	ngg	ออก	OGG	DOO	OGG	บอด	ngg	990	OGG	UGG	DGG	DGG	บเด	990	990	ngg	990	990	990	DOC	990	990	990	9911	990	990	990
Conc.	2.5	505	.251	52:	.249	. 245		8.70 E -2	18000	19000	7.72	735	360	7	7.5	422	50	12.5	12.7	41.7	.408	.427	25.5	16.6	7.47	37	34.1	374	12.4	15000	17000	20.9	678	320	4	9.76	413	50	12.5	12.7	51.7	419	.427
Meas. Bool.	5	_	: 5	1	_	ב	皇	ב						=	<u>_</u>		ב	-1	옾			ב							<u>_</u>						_			[]	5	S	!		ב
Analyte Description	PEIN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me* 2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Antimony	Mercury	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Atuminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Arsenic	Barium	Beryllium	Cadmium
CAS No.	78-11-5	88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	7440-36-0	7439-97-6	7429-90-5	2439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2440-09-7	7440-23-5	7440-28-0	7440-38-2	7440-39-3	7440-41-7	2440-43-9	2440-42-3	7440-48-4	2440-50-8	7440-62-2	9-99-0552	7440-70-2	7782-49-2	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2440-09-7	7440-23-5	7440-28-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9
	LW32/S						/ 66	3806/S	JS14/S																					JS14/S													
Lab Lab Anly. No.	PC 36900						PC 36900		PC 36927																					PC 36935													
Sample Date	02-FEB-92						02-FEB-92		02-FEB-92																					02-FEB-92													
Depth							0.5		0.5																					0.5													
Field Sample No.	\$26802						208928		S27S01																					S27S02													
Site ID	256802								S27S01																					S27S02													

^{* -} Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

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	Conc.	13.6	32.4	47.0	12.4	1.22	82.9 8 70 F -2	J	.25	.251	.51	007	1.27	i	2.5	Ľ		;	.505	.251	.25	.249	. 245	82.9	u	1.22	52		.251	-c:	667.	1.27	2.5		٠.
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File Type: CSO 01-JAN-91 24-0CT-94	Analyte Description	Chromium Cobalt Copper	Verrelandium	Calcium	Selenium	Lyanide Antimony	Mercury	Silver	2,4,6-Trinitrotoluene / alpha- Trinitrotoluga	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	2.6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	l, J, J-Irinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Silver	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	trinitro-1.3.5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	<pre>letranitroanline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol</pre>	trinitrate	Z,o-Dinitrotoluene
File 1) Date Range: 01-JAN-91	. CAS NO.	7440-47-3 7440-48-4 7440-50-8	7440-62-2	7440-70-2	7782-49-2		•	•	118-96-7	121-14-2	121-82-4	2691-41-0	479-45-8	2	0-60-66	606-20-2	78-11-5		88-72-2	99-08-1	44-22-4	0-00-00	0-44-44	7439-97-6	7440-25-4	57-12-5	118-96-7		121-14-2		2691-41-0	479-45-8	55-63-0	000	7-07-000
Sampling	Meth/ Matrix	JS14/S			3/ /08/	/ 66 86	JB06/S	JC02/S	LW32/S														8	JB06/S	JC02/S	KY04/	LW32/S								
	Lab Anly. No.	36935			74027	36927	i																36935												
	Lab	Pc			٥	ر د																	DG.	1											
	Sample Date	02-FEB-92				02-FEB-92																	02-FEB-92												
	Depth	0.5			5.	0.5																	0.5												
	Field Sample No.	S27S02			\$27501	S27S01																	S27S02												
	Site Site Type ID	S2			S27S01																		S27S02												

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

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Flag Codes	1					۵											-																					_					
Unit Meas.	ยยก	55N	990	990	990	990	990	990	990	99n	990	990	990	990	990	990	DO.	990	nec	990	99N	990	990	990	990	99n	990	DDU	99n	990	9 9 0	990	DDN	990	990	990	DDN	990	990	990	990	990	
Conc.	2.5	.505	.251 25	.249	.245	1.22	2600	13000	9100	20006	175	4	7.5	543	96.6	5.5	12.7	954	.25	20.4	16.8	7.95	422	15.3	209	1.0 E S		7500	30000	1200	8000	4200	5,51	52.9	417	50	12.5	12.7	184	.523	2.62	10.5	
Meas. Bool.	17	LT	55	: 5	H	L							_			5	€		5								L1									LI	L	ð					
	tetranitrate																																										
Analyte Description	PETN / Pentaerythritol tetranitrate /	2,2-6151(nltrooxy)me ² 2-Nitrotoluene	5-Nitrotoluene 1.3.5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Cyanide	Aluminum	Iron	Lead	Magneslum	Manganese	Molybdenum	Nickel	Potassium	Sodium	lnattium	Arsenic	Barlum	Beryllum	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thatlium	Arsenic	Barium	Beryllium	Cadmium	Chromium	
CAS No.	78-11-5	88-72-2	99-08-1	0-69-66	0-66-66	57-12-5	7429-90-5	7439-89-6	7439-92-1	(459-95-4	7439-96-5	7439-98-7	7440-02-0	7-60-055	7440-23-5	0-97-044/	7,490-38-2	7/10 /4 4	/-1.5-055/	7440-43-9	7440-47-3	7440-48-4	2440-50-8	7440-62-2	9-99-0552	7440-70-2	7782-49-2	2459-90-5	2439-89-6	7439-92-1	7439-95-4	2439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-38-2	7440-39-3	7440-41-7	7,40-43-9	(440-47-5	
Meth/ Matrix	_					KY04/	JS14/S																					JS14/S															
Lab Anly. No.	36935					369350	36641																					36650															Data Dietion
Lab Ar	P.						<u>ج</u>																					<u>۾</u>															0.40
Sample Date	35						01-FEB-92																					01-FEB-92															000
Depth	0.5						0.5																					0.5															+ 400
Field Sample No.	\$27502						S35 S01																					S35S02															d octob
Site ID	\$27502						S35 801																					S35S 02															Section Dec
Site Type	SURF																																										*

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Site Site Type ID

S35S03

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-0CT-

24-001-94

Data Quals						~ ~~	** * *
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Unit Meas.	990 990 990 990	990 990 990 990	990 900 900 900	999 999 999 999 999	990 990 990 990	990 000 900	99N 99N 99N
. conc	40.7 102 35.3 937 15000	12.4 4530 14000 1700 2120 178	7.5 266 50 12.5	196 7.18 12.9 310 23 969	4160 12.4 .195 1.22 133 82.9	2.65 .25 .251 .51	.499 1.27 2.5 .5
Meas. Bool.		ב	פלל לל	? 5	N רן	5 55	55 5 5
Analyte Description	Cobalt Copper Vanadium Zinc Calcium	Selenium Aluminum Iron Lead Magnesium Manganese	Molybdenum Nickel Potassium Sodium Thallium Arsenic	Barium Beryllium Cadmium Chromium Cobalt Copper Vanadium	Calcium Selenium Mercury Cyanide Total petroleum hydrocarbons	Silver 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene RDX / Conite / Hexahydro-1,3,5- trinitro-1.3.5-triazine *	Cyclotetramethylenetetranitramine Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate 2,6-Dinitrotoluene
CAS No.	7440-48-4 7440-50-8 7440-62-2 7440-66-6	7782-49-2 7429-90-5 7439-89-6 7439-92-1 7439-96-5	7439-98-7 7440-02-0 7440-09-7 7440-23-5 7440-28-0	7440-39-3 7440-41-7 7440-43-9 7440-47-3 7440-48-4 7440-62-2	7440-70-2 7782-49-2 7439-97-6 57-12-5 7440-36-0	7440-22-4 118-96-7 121-14-2 121-82-4	2691-41-0 479-45-8 55-63-0 606-20-2 78-11-5
Meth/ Matrix	JS14/S	JS14/S			JB06/S KY04/S 00 /S 99 /S	JC02/S LW32/S	
Lab Lab Anly. No.	PC 36650	PC 36668			PC 36641 PC 36641		
Sample Date	01-FEB-92	01-FEB-92			01-FEB-92 01-FEB-92		
Depth	0.5	0.5			0.5		
Field Sample No.	\$35802	835803			\$35\$01 \$35\$01		

535501

* - Analyte Description has been truncated. See Data Dictionary

Site Site
Type ID
SURF S35S01

S35S02

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

24-0CT-94	
: 01-JAN-91	
Range	
Sampling Date	

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Unit Meas.	ngg	UGG	DDU	ngg	DOG	990	UGG	990	UGG	990	990	990		UGG	000		UGG	DDO		ngg		UGG	UGG	nee	990	ngg	ngg	990	990	990	990	99N	100 0	990		990	990		DOC	99N		
Conc.	2.5	.505	.251	52:	.249	.245	8.70 E -2		61.4	82.9	1.01	:23		.251	.51		667.	1.27		2.5		۲.	2.5	505	.251	.25	.249	.245	8.70 E -2	1.22	73.5	82.9	1.01	.25		.251	.51		667.	1.27		
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Analyte Description	PETN / Pentaerythritol tetranitrate /	z,z-Bis[(nitrooxy)me~ 2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Cyanide	Total petroleum hydrocarbons	Antimony	Silver	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Cyanide	Total petroleum hydrocarbons	Antimony	Silver	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	
CAS No.	78-11-5	88-72-2	99-08-1	99-35-4	0-69-66	0-66-66	9-26-6572	57-12-5		7440-36-0	7440-22-4	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5	88-72-2	99-08-1	99-35-4	0-59-66	0-66-66		57-12-5			7440-22-4	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0
Meth/ Matrix	LW32/S						3/90gr	KY04/S	S/ 00	/ 66	JC05/	LW32/S																	3/908r	KY04/S	s/ 00	^ &	JC05/	LW32/S								
	PC 36641						PC 36650		PC 36650																				PC 36668		PC 36668											
Sample Date	0.5 01-FEB-92						0.5 01-FEB-92		0.5 01-FEB-92																				0.5 01-FEB-92		0.5 01-FEB-92											
:	s35so1						S35S02		S35S02																				S35S03		S35S03											

* - Analyte Description has been truncated. See Data Dictionary

S35S03

24-0C1-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Iype: CSO

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	Unit Meas.	000	990	990		990	35.5	250	990	าวอก	ออก	บบก	990	990	990	99N	ngg	990	990	ออก	990	99N	990	990	990	990	ŊgĊ	วยก	990	000	500 100	970	550 100	000	กาก	000	990	บเล	990 1	200	990
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	Meas. Bool.		ר	5				_ <u>-</u>	; ;										r1	11	Ş									+	F	- F	; <u>-</u>	. 5	2 F	; :	_, <u>_</u>	֓֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֡֓֓֓֓֓֓֓֡֓֓֡	<u> </u>	G N	בו
01-JAN-91 24-0CI-94	Analyte Description	Nitroglycerine / 1,2,3-Propanetriol	trinitrate 2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	Z-Nitrotoluche	1 % 5-Trinitrobenzene	1.3-Dinitrobenzene	4-Nitrotoluene	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	NICKEL	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	21Uc	Selenim	Mercury	Silver	Cyanide	4-Nitrophilipp	4-Nitrophenol	Benzyl a lookal	2 4-Dimethylphopol	D-Crosol / A-Crosol / A-Mothylphonal		4-Chloroaniline	Bis(2-chloroisopropyl) ether
Date Range: 01-JAN-91	CAS No.	55-63-0	606-20-2	78-11-5	88-72-3	99-08-1	99-35-4	0-59-66	0-66-66	7429-90-5	7439-89-6	1439-92-1	7/30-05-4	7,39-70-5	7-84-48-7	0-20-0547	7-60-05-7	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-59-5	7-14-0-41-7	7440-43-9	7440-47-5	5-05-05t/	7,440-50-8	7-79-044/	7440-66-6	7782-49-2	7439-97-6	7440-22-4	57-12-5	100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1 108-95-2
Sampling	Meth/ Matrix	LW32/S								JS14/																							KY04/								
	Lab Lab Anly. No.	PC 36668								PC 39012																					PC 39012										
	Sample Date	01-FEB-92								04-FEB-92																					04-FEB-92										
	Depth	0.5								0.5																					0.5										
	Field Sample No.	835803							į	S37S01																					S37S01										
	Site Site Type ID	S							1	S3/S01																															

* - Analyte Description has been truncated. See Data Dictionary

Field Sample No. Depth S37S01 0.5 0

Site Site
Type ID
SURF S37S01

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-0CT-

^{* -} Analyte Description has been truncated. See Data Dictionary

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Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

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Cope		.17	.28		.48	٣	25	3, 7	27.	11.	- !	.33	99.	.17	.32	17	76		۲.	1	1.7	.17	.2	.344	.459	.803	115	1 17.7	7,		220	115	229	229	.344	.115	.115	1.147		2.5 E -3		3.0 E -3	, C	,
Meas. Boot	1 1	LT	-1		Ľ	Ľ		; <u>-</u>	; <u>-</u>	- F	<u>.</u>		S	ב	ב	17	; <u>-</u>	; <u>-</u>	5	:	2	Ľ	Ľ																11	LT		LT	-	-
Analyte Description		fluorene / 9M-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylpaphthalene		z-unioronaphinalene	5,5'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2.4.5-Trichlorophenol	Nitrobenzene / Essence of mirhane /		Zalitanenii in	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	Unknown compound 531		Unknown compound 535		Unknown compound 540		compound		compound		Unknown compound 576		Unknown compound 589	Unknown compound 595	Unknown compound 654	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Vichloropene 1 2-Dirkloroe+kane	
CAS No.	1	86-73-7	87-68-3	2 20	87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	01-50-7	7-06-14	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		00-00	7-60-66																		100-41-4	100-42-5	1000	2-10-1-10001	107-06-2	2
Meth/ Matrix		LM30/																																					LM33/					
Lab Lab Anly. No.		PC 39012																																										
Sample Date		04-FEB-92																																										
Depth		0.5																																										
Field Sample No.		53/501																																										
Site ID		557501																		•																								

^{* -} Analyte Description has been truncated. See Data Dictionary

107-06-2 108-10-1

108-88-3

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2.7 E 1.9 E

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1,2-Dichloroethane Methyl isobutyl ketone / Isopropylacetone / 4-Methyl-2-pen* Toluene

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4.3 E

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

Data Quals																																								
Flag Codes																							~																	
Unit Meas.	990	990	990	nec	990		990	990	990	220	200	990	990	990	990	990	990	990	Dou	000	99N		990	990	990	990	990		990		บอก	DDN	990	990	990	990	990	990	990	חממ
Conc.		5.7 E -2	2.5 E -3	2.5 E -3	2.5 E -3		3.1 E -3		4.5 E -2	. .	и и		. u	ш	ш	ш	ш	ш	ш	ш	ш		ш	2.5 E -3	ш	ш	ш		1.2 E -2		7.5 E -3		13000	14000	423	13000	2800	7	7.4.0	000
Meas. Bool.	֡֜֞֜֜֜֜֞֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֜֜֜֡֜֓֓֡֡֜֜֜֓֓֡֡֜֜֜֡֡֡֡֡֓֓֡֡֡֡֓֜֡֡֡֡֓֓֡֡֡֡֡֡	5	בו	LŢ	11		<u>:</u>	5!	: :	<u>.</u>	<u>-</u> -	; <u>-</u>	; =	5	5		_	ב	5	-	_		ð		=	ב			Ľ		LT	-						ב		
Analyte Description	Chlorobenzene / Monochlorobenzene	Dibromochloromethane / Chlorodibromomethane	Tetrachloroethylene / Tetrachloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	<pre>Use Use Use Use Use Use Use Use Use Use</pre>	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl Ketone / 2-Hexanone	Acetone Chloroform		Denzene 1 1 1-Trichloroothono	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /I*	Tetrachloroethane / 1,1,2,2-	<pre>Tetrachloroethane / Acetylene *</pre>	Xylenes, total combined	trans-1,3-Dichloropropene	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	
CAS No.	108-90-7	1-84-421	127-18-4	156-59-2	156-60-5		56-23-5	9-8/-169	1-40-10	71-72-3	71-55-6	27.83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5				7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	0-20-044/	1440.044
Meth/ Matrix																																	JS14/							
Lab Anly. No.	39012																																39020							
Lab A	<u>ي</u> د																																S S							
Sample Date	25																																04-FEB-92							
Depth	0.5																																0.5							
Field Sample No.	S37S01																																S37S02							
Site ID	s37s01																																S37S02							
Site Type	SURF																																							

^{* -} Analyte Description has been truncated. See Data Dictionary

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-0CI-94

	Data	quals	: : : : : : : : : : : : : : : : : : : :																																									
	Flag	Codes	1			 																								_													<u>~</u>	
	Unit	Meas.	- : : : :	990	990	990	990	99n	ออก	000	000	99n	990 100	9 9	ונים	990	990	990	990	990	990	990	990	990	990	990	990	990	990	990	อบก วังก	190 100	990	990	ngg	nec	990	990	ngg	nec	ออก	990	99n	990
	,	Conc.	177	12.5	82.9	12.7	926	2.06	3.52	41.8	7.67	53	310	7100	12.4	8.70 E -2	1.01	1.22	11000	26000	81.4	1550	320	7	18.2	526	20	12.5	82.9	12.7	35.1	700.	18.9	18.6	36	41.6	159	3160	12.4	8.70 E -2		1.22	7.7	5.5
	Meas.	Bool.	1 1 1 1		[1	문									5	ב	ב	5						ב			-1	ב	5	8		-	;						ב		<u>-</u>	<u>-</u>	요 !	3
10-17N-7		Analyte Description	Sodium	Thallium	Antimony	Arsenic	Barıum	Beryllıum Cadain		Caromium Caral +	כייים	Copper Vanadium	Zinc	Calcium	Selenium	Mercury	Silver	Cyanide	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic .	Beryllin		Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Mercury	Silver	cyanide / Nitroconilia	4-Nitroaniline	
Sampring Date Range: 01-0AN-7	(A)	LAS NO.	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-59-5	7-14-044/	7//0-/7-2	7-87-0772	4-04-0447	7440-50-6	9-99-077	7440-70-2	7782-49-2	9-26-6252	7440-22-4	57-12-5	7429-90-5	459-69-6	7459-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0572	7440-23-5	7440-28-0	7440-36-0	7-98-044/	7440-39-3	6-27-0772	7440-47-3	7440-48-4	7440-50-8	7440-62-2	9-99-0552	7440-70-2	7782-49-2	2439-97-6	7440-22-4	100-01-4	100-01-8	70 00
Sampe and	Meth/	Matrix	JS14/													/90gr	JC02/	KY04/	JS14/																					780e/	JC02/	1 M 2 O /	LW20/	
	Lab	Lab Anty. No.														PC 39020			PC 59039																					PC 59039				
	Sample	•	0													04-FEB-92			U4-reB-92																					04-FEB-92				
	Denth		0.5												!	0.5		•	· •																					۲.۵				
	Field Sample No	Sample NO.	S37S02												1	S37S02		200223	506/56																				5007.50	22/202				
	Site	2	S37S 02															202223	575 903																									

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-0CI-

Field Sample No.

Site Site Type ID

Data Quals	1																																											
Flag Codes	1 1					~																									~													
Unit Meas.	1 1 1	99 0	990	ngg	990	990	990	990	2	991	200	วีวีก	550	990	9911	990	990	ngg	990	ngg	990	ออก	990	ngg		990	990	990	บอด	OGG	000	ngg		0 0 0		990	990	990	DBO	990	990	990	990	บยด
	1																												_															
Conc.	: !	٦.	.33	. 18	.17	.33	. 17	. 17		1		- 6		2,5	7	65.	.28	.31	1.4	. 17	.17	86.	1.2	1.8		2.4	-	.27	88.	1.4	1.7	.27		.84		.58	1.1	.23	.2	Ξ	.92	.17	£.	.32
Meas. Bool.	1	_	ב	-1	<u></u>	Q		; ; ;	i	_	; -		; :	; =		-	רַ				ב							ב			QN ON	L		Ľ		ב		٦		ב	_	LT	-1	ב
Analyte Description		Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Ris(2-chloroethyl) ether	Discontinuos de la constante d	bis/2-othylboxyl) methane	Districted phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate				Benzo[b] fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzo[a] pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo[a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-			Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone
CAS No.		9-15-001	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-66-6	111-01-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		534-52-1		541-73-1	56-55-3	20-29	606-20-2	621-64-7	65-85-0	67-72-1	7-27-22	78-59-1
Meth/ Matrix	, , ,	LM3U/																																										
Lab Lab Anly. No.		35U35																																										
Lab	:	7																																										
Sample Date		U4-FEB-92																																										
Depth		٥.5																																										

* - Analyte Description has been truncated. See Data Dictionary

Field Sample No. I

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

	Data	Quals	; ; ;																																											
	Flag	Codes	; ; ;																~							~	:		æ	<i>د</i> د) C	3 (າບ	n 0	o 0	v	o vo	· v	- 60	ı v	S	•				
	Unit	Meas.	9911	990	990	990	990	990	9911	990	! !	990	990	990	990	990	nee	000	990	990	ออูก	ngg	ngg	990		ngg	990	991	991	991	991	200	166	990	991	991	990	990	990 000	990	990	9911	990		990	
		Conc.	.27	.35	.51	.83	~.	.17	.17	. 28		87.	۳.	.36	92.	.17	.17	.33	99.	.17	.32	.17	.24	.19		1.7	.17	٠.	. 126	.881	126	25.	3.55	126	. 252	. 252	.126	.503	.377	.377	.377	ш	2.5 E -3		3.0 E -3	
	Meas.	Bool.	5	5	ב		[1	11	17	בו		-1	1	-	-	11	[]	LT	Ş	5		ב	Ľ	LT		2	-11	5														-	: 5	<u>.</u>	_	
U1-JAN-91 24-OCT-94		Analyte Description	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9H-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether		Unknown compound 535					compound	Unknown compound 611	Unknown compound 612	Unknown compound 624	Unknown compound 631	Unknown compound 651	Unknown compound 656	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	Dichloropropene	
vate kange: U1-JAN-91	340	CAS NO.	83-32-9	84-66-2	84-74-5	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	75-50-1	95-57-8	95-95-4	98-95-3		2-60-66																100-41-4	100-42-5	10061-01-5		
Sampund	Meth/	YI.IIY	LM30/																																							LM33/				
	Lab	Lab Anty. NO.	PC 39039																																											
	Sample	-	04-FEB-92	-																																										
	Denth		0.5																																											

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data Quals																																																
Flag																																		S														
Unit Meas.		990	990		nec	nge	9911)	9911	200		990		990		99N	990	990	DDO	990	ยูยก	201	990	000	990	กา	DBO	DGG	990	nec	ngg	ngg		UGG	nge	UGG	ngg	990)	990		DOC	990	990	9911	990	99n	
Conc.		2.7 E -3	ш		ш	2.5 E -3	ш	ı	25 8 -3	ı		2.5 E -3		2.5 E -3			1.8 E -2	ш	ш	ш	ш	ш			3.0 E -5	LI I	ш	ш	ш	ш	ш	ш		ш	ш	5.1 E -3	ш	ш	1	1.2 E -2		7.5 E -3		4320	11000	23.8	2250	
Meas. Bool.		ב	ב		ב		-	i	-	;		-	i	5			1	ב	ב		=	; <u>-</u>	; <u>-</u>	; <u>:</u>	<u>.</u>	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	ב	5	ב	ב	5	ב			ב	ב	-	<u></u>	i	5		5	=	i				
Analyte Description		1,2-Dichloroethane	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	Totrocklonockbono / Donoklonockbulon*	ieri acirici oeriierie / Percirioroernyten-	cis-1,2-Dichloroethylene / cis-1,2-	Ulchloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1.1.1-Trichloroethane	Bromomethane	Chloromethane	Ch Oroothone	tinglocinane	Viny chiculae / chicoloethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /		Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	Aluminum	Iron	Lead	Magnesium	
CAS No.	:	107-06-2	108-10-1		108-88-3	108-90-7	124-48-1		127-18-4	· ?		7-66-961		C-00-0CI	1	56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-2	75-01-5	2 6	2-60-57	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5				7429-90-5	2439-89-6	7439-92-1	7439-95-4	
Meth/ Matrix	:	LM33/																																										JS14/				
Lab Lab Anly. No.		PC 39039																																										PC 39047				
Sample pth Date		0.5 04-FEB-92																																										0.5 04-FEB-92				
Field Sample No. De		S37S03																																										S37S04				
Site Site Type 10		SURF S37S03																																										S37S04				

* - Analyte Description has been truncated. See Data Dictionary

Data Quals

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN)

	Flag Codes	:					_												۵	1																			
	Unit Meas.	000	990 Ngg	990	990	990 0	990	บอด	99n	990 1100	990	990 000	9 9 0	990	990	99 0	990 1	990	990	ngg	9 9 0	990	990	DDO	000	n 19	990	990	ยูยูก	990	ngg	99 n	990 100	990	550 O	99n	990	ngg Ngg	
	Conc.	166	7.5	344	50 12 5	82.9	12.7	21.1	.378	.42/	7.64	15.1	17.3	302	4070	6 70 5	ш	1.22	1.22	9300	26000	58.4	8700	350 ,	13.2	585	57	12.5	82.9	12.7	41.6	.636	. 728	7.0 16.5	36	77	134	20000 12.4	
	Meas. Bool.		55	<u>.</u>	<u>-</u>	: 5	Q.		-	_						<u>.</u>	<u> </u>	ב' ו	5						3			17	Ľ	QN								רו	
File Type: CSO 01-JAN-91 24-0CT-94	Analyte Description	Manganese	notypaenum Nickel	Potassium Sodium	Thattiem	Antimony	Arsenic	Barium	Servician Cadmin	Chromium	Cobalt	Copper	Vanadium	Zinc	Selenium	Merciry	Silver	Cyanide	Cyanide	Aluminum	Iron	Lead	Magnesium	Molyhdonim	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barlum Barril in	Del y C Luii	Chromium	Cobalt	Соррег	Vanadium	21nc	Selenium	
File To Sampling Date Range: 01-JAN-91	CAS No.	7439-96-5	7440-02-0	7440-09-7	7440-28-0	7440-36-0	7440-38-2	7440-39-3	6-87-0552	7440-47-3	7440-48-4	7440-50-8	7,70	7,440-66-6	7-01-0441	2430-02-6	7440-22-4	57-12-5	57-12-5	7429-90-5	7439-89-6	1-24-45-1	5-90-027Z	2-80-0272	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-59-5	1-15-0551	2-25-0552	7440-48-4	7440-50-8	7440-62-2	0-00-047/	7782-49-2	
Sampling	Meth/ Matrix	1														JB06/				JS14/																			
	Lab Anly. No.															39047			390470	39055																			
	Lab	PC														PC			;	P C																			
	Sample Date	04-FEB-92														04-FEB-92				04-rEB-92																			
	Depth	0.5														0.5			c	c.0																			
	Field Sample No.															S37S04			30223	505/55																			
	Site ID	S37 S04																	C27c0E	27/ 202																			

^{* -} Analyte Description has been truncated. See Data Dictionary

Field Sample No.

Site 10 ----\$37805

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

Data Quals	7 1 1 1																																											
Flag Codes	: : : : : : : : : : : : : : : : : : : :			œ						œ																									~									
Unit Meas.	550	990	990	บยต	ngg	nec	ngg	990	nge	ยยก	990	990		990	ngc	99N	บอด	990	DOU	ncc	990	UGG	ngg	UGG	neg	nge	990	UGG		UGG	990	บยย	990	วอก	DDN	ยยก		990		nec	บบก	nec		nec
Conc.	8.70 F -2	1	1.22	1.7	2.5	-17	.33	.18	.17	.33	-17	.17		1.6	.17	.19	.22	.26	.17	.29	.28	.31	76.	.17	.17	52:	.17	.73		.17	4.	.27	.27	.24	1.7	.27		.84	į	84.	.17	.23	ć	7.
Meas. Bool.	-	; =	-	욮	7	ב	ב	[1	17	Q	-1	-1			LT	ב	רַ	ב	ב		ב	-1	5	-1	-1	רַ	ר	۲٦		רַ	ב	L			9	רַ		ב		_	Ľ	ב		_
Des	Mercury	Silver	Cyanide	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,D]pyrene	Benzo[b]fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo [k] fluoranthene	Acenaphthylene	Chrysene	Benzo [a] pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	i, 5-Uichiopenzene	Benzo [a] anthracene	5-Methyl-4-chlorophenol / 4-Chloro-3-	2 6-5 minimum 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	c,o-Umitrototuene
CAS No.	7439-97-6	7440-22-4	57-12-5	100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	20-52-8	51-28-5	53-70-3		534-52-1	57.4.77	741-13-1	56-55-5	7-05-65	6-06-304	3-03-000
Meth/ Matrix	790gr	JC02/	KY04/	LM30/																																								
	PC 39055																																											
	0.5 04-FEB-92																																											

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-1AN-91

	Dat.i Quats		
	Flag Codes	α α α α α α α α α α α α α α α α α α α	
	Unit Meas.	990 990 990 990 990 990 990 990 990 990	
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	Meas. Bool.	 	
Date Range: 01-JAN-91 24-0CT-94	Analyte Description	N-Nitrosodi-n-propylamine Benzoic acid Hexachlorocyclopentadiene Isophorone Scenaphthene Diethyl phthalate Diethyl phthalate Phenanthrene Butylbenzyl phthalate Phenanthrene Ituorene / 9H-Fluorene Hexachlorophenol Z,4,6-Trichlorophenol Z,4,6-Trichlorophenol Z,4,6-Trichlorophenol Z,4,6-Trichlorophenol Z,4,5-Trichlorophenol Z,4,5-Trichlorophenol Naphthalene / Tar camphor Z-Nitrophenol Nitrobenzene / Essence of mirbane / Oil of mirbane Z-Chlorophenol Nitrobenzene / Essence of mirbane / Oil of mirbane Z-Nitroaniline Z-Chlorophenol Nitrobenzene / Essence of Styrol / Styrolene / Cinnamene * Cilorophenyl phenyl ether Unknown compound 623 Unknown compound 631 Ethylbenzene Z-Trichloropropene Z-Dichloropropene Z-Dichloroethane Methyl isobutyl ketone / Isopropylacetone / 4-Methyl-2-pen*	
	CAS No.	621-64-7 65-85-0 67-72-1 77-47-4 78-59-1 83-32-9 84-74-2 85-68-3 85-68-3 85-68-3 85-68-3 87-68-3 87-68-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-1 95-55-8 95-55-8 95-95-1 100-41-4 100-42-5 100-6-2	
Sampling	Meth/ Matrix	LM33/	
	Lab Anly. No.		
	Sample h Date		
	. Depth		
	Field Sample No.	\$37\$05	,
	Site ID	237505	
	Site Type	SUR F	

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data Quals	1																																												
Flag Codes	1 1 1																												~																
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Meas. Bool.	-	ב	֡֜֞֜֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֜֜֜֓֓֓֓֓֜֜֜֜֡֓֓֡֓֡֡֡֡֜֜֜֡֡֡֡֡֡	5	-	_	-	5	<u>+</u>	_	!	5	-	ב		L	ב	-	ב	ב	-	ר	17	בֿו	-	i	i <u>'</u>	;	Q	:	רו	רו	5		LI	5	: <u>-</u>	į							
Analyte Description	, , , , , , , , , , , , , , , , , , , ,	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Totach occethal	Tetrachicanthera / peeti secondariant	is 1.2 Pirtlement / Perchlorethylen	CIS-1,Z-DICHIOFOETHYLENE / CIS-1,Z-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1.1-Dichloroethane	1 1-Dichloroethylene / 1 1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2- Tetrachloroethane / Acetylene *	Xvlenes, total combined	trans-1 3-Dichloropropene	Aliminim	- At dill main	1011	Lead	Magnesium	Manganese Malyhdan m	Nickel	
CAS No.		108-88-3	108-90-7	124-48-1	727-18-7	4-01-171	6 60 2	7-60-001	2 07 721	C-NO-9CI		56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	7-52-52	•	75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5			7,20-00-5	6-04-624/	7/20-02-1	1-76-654/	4-04-404/	7/30-08-7	7440-05-0	
Meth/ Matrix		LM33/																																				1017.7	/#107						
Lab Lab Anly. No.	•	PC 39055																																				2002 30							
Sample Date	:	04-FEB-92																																				07-650-03							
Depth	:	0.5																																				c	0.0						
Field Sample No.		S37S05																																				703223	975,200						
Site ID	:	S37S05																																				700220	22/200						

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

24-001-94
01-JAN-91
Date Range:
Sampling

STATESON STATESON	6 \$377806 0.5 Ou-Figs-02 Por 37043 Analyte Description Boot Conc. Wees Conc. 6 \$377806 0.5 Ou-Figs-02 P. 37043 \$150,00 Animals \$17.50 Animals \$17.5		Site	Field	4	0,	-	Lab	Meth/	ı		Meas.		Unit	Flag	Data
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7440-36-0 Antimony LT 82.9 UGG 7440-38-2 Arsenic 7440-47-7 Beryllium 7440-47-3 Cadmium 7440-48-4 Cobalt 7440-50-8 Copper 7440-62-2 Vanadium 7440-62-2 Vanadium 7782-49-2 Selenium 7782-49-2 Selenium 718-96-7 Trinitrotoluene 721 UGG 721-14-2 2,4-Dinitrotoluene 7221 UGG 7221 UGG 7231 UGG 7231 UGG 7232-49-2 Selenium	7440-36-0 Antimony LT 82-9 UGG 7440-38-2 Arsenic 7440-38-2 Barium 7440-47-7 Baryllium 7440-47-3 Cadmium 7440-47-3 Chromium 7440-48-4 Cobalt 7440-62-2 Vanadium 7440-66-6 Zinc 7440-70-2 Calcium 7440-70-2 Calcium 7480-70-2 Selenium 7480-70-2 Calcium 7480-70-2 Calcium 7480-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-70-2 Calcium 7490-8-0 Selenium 7490-70-2 Calcium 7490-70-3 Calcium 740-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium 7490-70-3 Calcium									7440-28-0	Thattium	-	12 5	200		
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7440-35-3 Arisente ND 12.7 UGG 7440-35-3 Barium 66.1 UGG 7440-41-7 Beryllium 83-9 UGG 7440-43-9 Cadmium 147 .427 UGG 7440-47-3 Chromium 51.6 UGG 7440-48-4 Cobalt 51.6 UGG 7440-62-2 Vanadium 83.4 UGG 7440-66-6 Zinc 1760 UGG 7440-66-6 Zinc 1760 UGG 7440-70-2 Calcium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG 7782-49-2 Selenium 1760 UGG	7440-35-3									C-82-077Z	Apr. 0.1.	<u>.</u> ;	82.9	000		
7440-37-3 Barlum 7440-41-7 Beryllium 7440-43-9 Cadmium 7440-47-3 Chromium 7440-48-4 Cobalt 7440-50-8 Copper 7440-65-2 Vanadium 7440-66-6 Zinc 7440-70-2 Calcium 7782-49-2 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-49-1 Selenium 7782-	7440-37-3 Barium 7440-43-9 Cadmium 7440-43-9 Cadmium 7440-48-4 Cobalt 7440-48-4 Cobalt 7440-62-2 Vanadium 7440-66-6 Zinc 7440-66-6 Zinc 7440-60-70-2 Calcium 7782-49-2 Selenium									7 02 07/2	Al Sellic	2	12.7	990	<u>-</u>	
7440-41-7 Beryllium .839 7440-43-9 Cadmium 7440-47-3 Chromium 7440-48-4 Cobalt 7440-50-8 Copper 7440-62-2 Vanadium 7440-66-6 Zinc 7440-60-6 Zinc 7440-70-2 Calcium 7782-49-2 Selenium 118-96-7 2,4,6-Trinitrotoluene / alpha- 121-14-2 2,4-Dinitrotoluene 121-14-2 2,4-Dinitrotoluene 121-82-4	7440-41-7 Beryllium .839 7440-43-9 Cadmium .17 7440-47-3 Chromium .427 7440-48-4 Cobalt .29.8 7440-62-2 Vanadium .21 7440-66-6 Zinc .221 7440-70-2 Calcium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760 7782-49-2 Selenium .1760									C-AC-0++/	Barıum		66.1	990		
7440-43-9 Cadmium LT .427 7440-47-3 Chromium 51.6 7440-48-4 Cobalt 7440-50-8 Copper 7440-65-2 Vanadium 7440-66-6 Zinc 7440-70-2 Calcium 7782-49-2 Selenium 118-96-7 Z,4,6-Trinitrotoluene / alpha- LT 12.4 121-14-2 Z,4-Dinitrotoluene 121-14-2 Z,4-Dinitrotoluene 121-82-4	7440-43-9 Cadmium LT .427 7440-47-3 Chromium 51.6 7440-48-4 Cobalt 7440-68-2 Vanadium 83.9 7440-66-6 Zinc 7440-66-6 Zinc 7440-70-2 Calcium 118-96-7 2,4,6-Trinitrotoluene / alpha- LT 12.4 118-96-7 2,4,6-Trinitrotoluene / 25 121-14-2 2,4-Dinitrotoluene / 121-14-2 2,4-Dinitrotoluene									7-17-07-17	Beryllium		830	2011		
7440-47-3 Chromium 7440-48-4 Cobalt 7440-50-8 Copper 7440-62-2 Vanadium 7440-66-6 Zinc 7440-70-2 Calcium 7782-49-2 Selenium 118-96-7 2,4,6-Trinitrotoluene / alpha- LT 12.4 121-14-2 2,4-Dinitrotoluene 121-14-2 2,4-Dinitrotoluene 121-82-4	7440-47-3 Chromium 7440-48-4 Cobalt 7440-50-8 Copper 7440-62-2 Vanadium 7440-66-6 Zinc 7440-66-6 Zinc 7782-49-2 Selenium 7782-49-2 Selenium 7782-49-2 Selenium 7782-49-2 Selenium 7782-49-2 Selenium 7782-49-2 Selenium 7782-49-2 Selenium 7782-49-2 Selenium 7782-49-2 Selenium 7782-49-2 Selenium 7782-49-2 Selenium 7782-49-7 2,4,6-Trinitrotoluene 7782-49-2 Selenium 7782-49-2 Se									2440-43-9	Cadmium	_	767			
7440-48-4 Cobper 7440-62-2 Vanadium 7440-66-6 Zinc 7440-66-6 Zinc 7440-70-2 Calcium 7782-49-2 Selenium 118-96-7 2,4,6-Trinitrotoluene / alpha- 121-14-2 2,4-Dinitrotoluene 121-14-2 2,4-Dinitrotoluene 121-82-4	7440-48-4 Cobalt 29.8 7440-68-6 Copper 33.9 7440-66-6 Zinc 20.8 7440-66-6 Zinc 22.7 7440-70-2 Calcium 1760 7782-49-2 Selenium LT 12.4 118-96-7 Z,4,6-Trinitrotoluene / alpha- LT 2.5 121-14-2 Z,4-Dinitrotoluene / 121-82-4									2-27-0572	Chromium	<u>.</u>	, 47	000		
7440-50-8 Copper 33.9 7440-62-2 Vanadium 7440-66-6 Zinc 7440-70-2 Calcium 7782-49-2 Selenium 118-96-7 2,4,6-Trinitrotoluene / alpha- LT 12.4 121-14-2 2,4-Dinitrotoluene 121-14-2 2,4-Dinitrotoluene 121-82-4	7440-50-8 Copper 7440-62-2 Vanadium 7440-62-2 Linc 7440-66-6 Zinc 7440-70-2 Calcium 7782-49-2 Selenium 118-96-7 2,4,6-Trinitrotoluene / alpha- LT 12.4 118-96-7 Z,4,6-Trinitrotoluene / alpha- LT .25 121-14-2 2,4-Dinitrotoluene									7-87-0772	- CHC		9.10	990		
7440-50-6 Copper 73.9 7440-66-6 Zinc 83.4 7440-66-6 Zinc 7782-49-2 Calcium 1760 7782-49-7 2,4,6-Trinitrotoluene / alpha- LT 12.4 118-96-7 L4,6-Trinitrotoluene LT .25 121-14-2 2,4-Dinitrotoluene LT .25	7440-50-5 Copper 73.9 7440-66-6 Zinc 83.4 7440-70-2 Calcium 1760 7782-49-2 Selenium LT 12.4 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 121-14-2 2,4-Dinitrotoluene LT .251									4 04 04/2	רטומון		29.8	9 9 0		
7440-66-2 Vanadium 83.4 7440-66-6 Zinc 221 7440-70-2 Calcium 1760 7782-49-2 Selenium LT 12.4 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 121-14-2 2,4-Dinitrotoluene LT .25	7440-62-2 Vanadium 83.4 7440-66-6 Zinc 221 7440-70-2 Calcium 1760 7782-49-2 Selenium LT 12.4 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 121-14-2 2,4-Dinitrotoluene LT .251									8-06-0447	Copper		33.9	990		
7440-66-6 Zinc 7440-70-2 Calcium 7782-49-2 Selenium 118-96-7 2,4,6-Trinitrotoluene / alpha- 121-14-2 2,4-Dinitrotoluene 121-14-2 2,4-Dinitrotoluene	7440-66-6 Zinc 221 7440-70-2 Calcium 1760 7782-49-2 Selenium LT 12.4 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 121-14-2 2,4-Dinitrotoluene LT .251									7440-62-2	Vanadium		87 /			
7440-70-2 Calcium 1760 7782-49-2 Selenium LT 12.4 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 Trinitrotoluene LT .25 121-14-2 2,4-Dinitrotoluene LT .251	7440-70-2 Calcium 1760 7782-49-2 Selenium LT 12.4 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 Trinitrotoluene LT .25 121-14-2 2,4-Dinitrotoluene LT .251									9-99-057	Zinc			חממ		
7782-49-2 Selections 1760 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 Trinitrotoluene 121-14-2 2,4-Dinitrotoluene LT .251 121-82-4	7782-49-2 Selenium LT 12.4 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 Trinitrotoluene LT .25 121-14-2 2,4-Dinitrotoluene LT .251									2-02-0772			177	กรเ		
118-96-7 2,4,6-Trinitrotoluene / alpha- LT 12.4 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 121-14-2 2,4-Dinitrotoluene 121-82-4	118-96-7 2,4,6-Trinitrotoluene / alpha- LT 12.4 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 121-14-2 2,4-Dinitrotoluene LT .251									7782-70-2	Catchail		1/60	nee		
118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 Trinitrotoluene 121-14-2 2,4-Dinitrotoluene 121-82-4	118-96-7 2,4,6-Trinitrotoluene / alpha- LT .25 Trinitrotoluene 121-14-2 2,4-Dinitrotoluene LT .251									7-64-7011	Selenium	-1	12.4	990		
Trinitrotoluene 2,4-Dinitrotoluene LT .251	Trinitrotoluene 2,4-Dinitrotoluene LT .251									118-96-7	2,4,6-Trinitrotoluene / alpha-	-	.25	nge		
2,4-Dinitrotoluene LT .251	2,4-Dinitrotoluene LT .251									,	Trinitrotoluene					
										121-14-2	2,4-Dinitrotoluene	5	.251	nge		
										121-82-4						

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

Data Quals	; ; !																																											
Flag Codes	1 1 1																												-															
Unit Meas.	000	51	99n		990		990	990		nge	990	990	990	DOC	990	990	990	990	990	UGG	990	990	000	000	990	990	000	nge	DDO	ngg	ออก	550	990	991	1166	991	201	990	9 20	ם פוני	กรุก	5511	חפח	
Conc.	.51	007	1.27		2.5		₹.	2.5		.505	.251	.25	. 249	.245	8.70 E -2	1.01	1.22	41000	51000	35.6	966	1400	7	25.5	1340	77.4	12.5	82.9	12.7	102	1.01	.427	46.5	42.5	35.1	83.3	22.0	2210	12.4	# 7C	G.	251		
Meas. Bool.		-	: 5		[]			П		-	5	1	17	L	П	1	ב						11				[1	11	Q.			ר							-	<u>.</u> -	5	-	-	
Analyte Description	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine * Cvclotetramethylenetetramitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	•	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Silver	Cyanide	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenim	2 / K-Trinitrotolilone / slabs-	Trinitrotoluene	2.4-Dinitrotoluene		
CAS No.	121-82-4	2691-41-0	479-45-8		55-63-0		606-20-2	/8-11-5	1	88-72-2	99-08-1	99-35-4	0-69-66	0-66-66	2439-97-6	7440-22-4	57-12-5	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7-11-0447	2440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	2440-66-6	2-02-0772	2-67-2822	118-06-7		121-14-2	121-82-4	! !
_	LW32/S														3/908r	JC02/8	KY04/S	1814/																						1 43275	770			
Lab Lab Anly. No.	PC 31585														PC 31585			PC 31593																										
Sample Date	30-JAN-92														30-JAN-92			0.0 30-JAN-92																										
Depth	0.0														0.0			0.0																										
Field Sample No.	S5S01													1	S5S01		•	25502																										
Site ID	S5S01																	22202																										
Site Type																																												

^{* -} Analyte Description has been truncated. See Data Dictionary

Data Quals

Site ID ----S5S02

Site Type ...-

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-0CT-94

Flag	Codes																														-	•												
Unit	Meas.	990		990	990		nge		990	990		nge	991	1166	201	990	9	991	550	991	551	900	991	99	951	500	ם מפ	990	991	990	990	990	950	990	nge	990	1100	951	991	991	1166	990	!	nee
	conc.	.51		667.	1.27		2.5		٦.	2.5		.505	.251	į K	570	245			1.22	26000	39000	338	1480	2700	2011	7 02	1750	201	12.5	82.9	12.7	123	1.04	.427	101	45	37.6	80.5	155	0009	12.4	.55		.251
Meas.	.1001	11		L1	5		ב		LI	L		-	-	: <u>-</u>	: <u>-</u>	: <u>-</u>	i <u>-</u>	: 5	1	i					_	;			1	: 5	9			11							-	ב		1
Analyte Decription	יייייייייייייייייייייייייייייייייייייי	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1.3-Dinitrobenzene	4-Nitrotoluene	Mercury	Silver	Cyanide	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene
CAS NO		121-82-4		0-14-1697	8-67-6/4		0-59-66		2-02-909	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	2439-97-6	7440-22-4	57-12-5	7429-90-5	2439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	2-79-045	2440-66-6	7440-70-2	7782-49-2	118-96-7		121-14-2 121-82-4
Meth/		LW32/S															JB06/S	JC02/S	KY04/S	JS14/																						LW32/S		
Lab Antv. No.																																												
Sample Date		30-JAN-92															30-JAN-92		i	30-JAN-92																								
Depth																	0.0		•	0.0																								
Field Sample No.		S 2802														1	25 8 0 2			S5503																								
	Sample Lab Meth/ Analyte Description Analyte Description Date Lab Anly. No. Matrix CAS No. Marrix CAS No. Matri	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas.	Sample Lab Meth/ Analyte Description Bool. Conc. Meas. 0.0 30-JAN-92 PC 31593 LW32/s 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. 0.0 30-JAN-92 PC 31593 LW32/s 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description O.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG trinitro-1,3,5-triazine * LW32/S 121-82-4 RDX / Cyclotetramethylenetetranitramine LT .499 UGG	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description O.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG trinitro-1,3,5-triazine * LW32/S 121-82-4 RDX / Cyclotetramethylenetetranitramine LT .499 UGG 479-45-8 Tetryl / N-Methyl-N,2,4,6- LT 1.27 UGG	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description O.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG trinitro-1,3,5-triazine * 2691-41-0 Cyclotetramethylenetetranitramine LT .499 UGG 479-45-8 Tetryl / N-Methyl-N,2,4,6- LT 1.27 UGG	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description O.O 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG trinitro-1,3,5-triazine * 2691-41-0 Cyclotetramethylenetetranitramine LT .499 UGG 479-45-8 Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT 2.5 UGG	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description 0.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG trinitro-1,3,5-triazine * 2691-41-0 Cyclotetramethylenetetranitramine LT .499 UGG 479-45-8 Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT 2.5 UGG	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description 0.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG trinitro-1,3,5-triazine * 2691-41-0 Cyclotetramethylenetetranitramine LT .499 UGG 479-45-8 Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT 2.5 UGG trinitrate 606-20-2 2,6-Dinitrotoluene LT .55 Unit Date Unit Date Heas. 11	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description 0.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG 479-45-8 Tetral troaniline / Nitramine / 1 2.5 UGG trinitrotoluene LT 2.5 UGG 479-62-2 2,6-Dinitrotoluene LT .5 UGG trinitrate CAS No. Analyte Description Bool. Conc. Meas	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description 0.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG 2691-41-0 Cyclotetramethylenetetranitramine LT .499 UGG 479-45-8 Tetryl / N-Methyl-N,2,4,6- LT 1.27 UGG tetranitroaniline / Nitramine / * 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT 2.5 UGG trinitrate 606-20-2 2,6-Dinitrotoluene 78-11-5 PEIN / Pentaerythritol tetranitrate / LT 2.5 UGG 2,2-Bis[(nitrooxy)me*	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description 0.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG trinitro-1,3,5-triazine * 2691-41-0 Cyclotetramethylenetetranitramine LT .499 UGG 470-45-8 Tetryl / N-Methyl-N,2,4,6- LT 1.27 UGG tetranitroaniline / Nitramine / * 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT 2.5 UGG trinitrate 660-20-2 2,6-Dinitrotoluene LT 2.5 UGG 2,2-Bis[(nitrooxy)me* LT 2.5 UGG 2,2-Bis[(Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description 0.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 .0GG 479-45-8 Tetryl / N-Methyl-N.2,4,6- LT .27 .0GG 479-45-8 Tetryl / N-Methyl-N.2,4,6- LT .25 .0GG 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT .55 .0GG 666-20-2 2,6-Dinitrotoluene	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description 0.0 30-JAN-92 PC 31593 LW32/s 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG 2691-41-0 Cycloteframethylenetetranitramine / * LT 1.27 UGG 479-45-8 Tetryl / N-Methyl-N,2,4,6- LT 1.27 UGG tetranitroaniline / Nitramine / * LT 1.27 UGG 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT 2.5 UGG 78-11-5 PEIN / Pentaerythritol tetranitrate / LT 2.5 UGG 78-72-2 2,6-Dinitrotoluene LT .55-5 UGG 99-08-1 3-Nitrotoluene LT .55-5 UGG 99-08-1 3-Nitrotoluene LT .55-5 UGG 99-35-4 1,3,5-Trinitrobenzene LT .55-5 UGG	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description 0.0 30-JAN-92 PC 31593 LW32/s 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG 2691-41-0 Cyclotramethylenetarmitramine LT .499 UGG 479-45-8 Tetryl / N.Methyl-N.2,4,6- 11 1.27 UGG 479-45-8 Tetryl / N.Methyl-N.2,4,6- S5-63-0 Nitroglycerine / 1,2,3-Propanetriol LT .5 UGG 78-11-5 PEIN / Pentaerythritol tetranitrate / LT .5 UGG 78-11-5 PEIN / Pentaerythritol tetranitrate / LT .55 UGG 99-35-4 1,3,5-Trinitrobenzene LT .255 UGG 99-35-4 1,3,5-Trinitrobenzene LT .255 UGG 99-55-0 1.5-Dinitrobenzene LT .255 UGG	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. Analyte Description 0.0 30-JAN-92 PC 31593 LW32/S 121-82-4 Exp. 127 Cycloteramethyloralitamine LT .59 UGG 2691-41-0 Cycloteramethyloralitamine LT .499 UGG 479-45-8 Tetryl / N-Methyl-N,2,4,6- Exp. 1,2,3-Propanetriol LT .55 UGG 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT .55 UGG 56-20-2 2,6-Dimitrotoluene LT .505 UGG 88-72-2 2-Nitrotoluene LT .505 UGG 99-65-0 1,3-Dimitrobenzene LT .25 UGG 99-65-0 1,3-Dimitrobenzene LT .249 UGG 99-99-0 4-Nitrotoluene LT .249 UGG 99-99-0 4-Nitrotoluene LT .259 UGG 99-99-0 4-Nitrotoluene LT .245 UGG 99-99-0 4-Nitrotoluene LT .245 UGG	Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No. O.0 30-JAN-92 PC 31593 LW32/S 121-82-4 Rocalite the theoretical training trainin	Sample Lab Meth/ Matrix Analyte Description Meas. Unit 0.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT 5:1 UGG 70.0 30-JAN-92 PC 31593 LW32/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT 5:1 UGG 479-45-8 Tetryl / N-Methyl-N,2,4,6- LT 1.27 UGG 55-63-0 Nitroglycerine / Nitramine / Nitramine / LT 1.27 UGG 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT 2.5 UGG 806-20-2 2,6-Dinitrodolune LT 2.5 UGG 78-11-5 PETN / Pentaerythriol tetranitrate / LT 2.5 UGG 78-11-5 PRIN / Pentaerythriol tetranitrate / LT 2.5 UGG 99-08-1 3-Nifrotolune LT 2.5 UGG 99-08-1 3-Nifrotolune LT 2.49 UGG 99-08-1 1,3-Dinitrobenzene LT 2.49 UGG 99-08-1 1,3-Dinitrobenzene LT 2.49 UGG 99-08-1 1,3-Dinitrobenzene LT 2.49 UGG 90-08-1 1	Sample Lab Meth/ Analyte Description Meas. Unit 0.0 30-JAN-92 PC 31593 LW3Z/S 121-82-4 RDX / Cyclonite / Hexahydro-1,3,5- LT .51 UGG 2691-41-0 Cyclotetramethylenetetranitramine / 479-45-8 Trinitro-1,3,5-triazine * LT .499 UGG 479-45-8 Tetranitro-1,3,5-triazine / 479-45-8 Tetranitro-1,1,2,3-Propanetriol LT .499 UGG 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT .2,5 UGG 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT .2,5 UGG 78-11-5 PEIN / Pentaerythritol tetranitrate / LT .2,5 UGG 78-11-5 PEIN / Pentaerythritol tetranitrate / LT .2,5 UGG 99-08-1 3-Nitrotoluene / 1,2,3-Propanetriol LT .2,5 UGG 99-08-1 3-Nitrotoluene / 1,2,3-Propanetriol LT .2,5 UGG 99-08-1 1,3-Dinitrobenzene LT .2,5 LT .2,5 UGG 99-08-1 1,3-Dinitrobenzene LT .2,5 LT .2,5 99-08-0 1,3-Dinitrobenzene LT .2,5 LT .2,4 UGG 99-09-0 1,3-Dinitrobenzene LT .2,5 LT .2,4	Sample	Sample	Sample Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Hoes.	Sample Lab Meth Date Lab Meth Date Lab Meth Date Lab Meth Date Lab Meth Date Lab Meth Date Lab Meth Date Lab Meth Date Lab Meth Date Las Anly. No. Marrix CAS Conc. Conc. Date Las Anly. No. Date Las Anly. No. Date Las Anly. No. Date Las Anly. No. Date Las Anly. No. Date Las Anly. No. Date Las Anly. Date Date Las Anly. Date Date	Sample Lab Ally No. Matrix CAS No. Analyte Description Bool. Conc. Unit	Sample	Sample Lab Anly. No. Marrix CAS No. Analyte Description Bool. Conc.	Sample Lab Anly. No. Martix CAS No. Analyte Description Bool. Conc. Unit Dept Date Lab Anly. No. Martix CAS No. Analyte Description Bool. Conc. Co	Sample Sample Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Heas. Co.	Sample Lab	Sample Sample Lab	Sample Lab Anty. No. Martix CAS No. Analyte Description Bool. Conc. Heas.	Sample Lab Anly: No. Martix CAS No. Analyte Description Paes. Bool. Conc. Mess.	Sample	Sample Lab	Sample Lab Meth/ No. Martix CAS No. Analyte Description Meas. Bool. Conc. Meas.	Sample	Sample Lab Antly, No. Hatrix CAS No. Analyte bascription Bool. Conc. Hass.	Sample Lab Anily No. Harrix CAS No. Analyte bascription Bool. Conc. Heas.	Sample Lab Anty No. Martix CAS No. Analyte Description Bool. Corc. Meas. Date Lab Anty No. Martix CAS No. Analyte Description Bool. Corc. Meas. Date Corc. D	Sample Lab Alei, Lab Ale	Depth State Lab Anly- No. Markyte Description Meas. Unit Depth State Lab Anly- No. Markyte Description Bool. Conc. Meas. Unit Co. State Co.	Depth Sample Lab Att, Analyte Description Meas. Boot. Date Lab Att, Analyte Description Boot. Date Date Lab Att, Analyte Description Boot. Date	Depth Date Lab L

S5S03

121-14-2 121-82-4

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

24-0CI-94	
01-JAN-91	
Range:	
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Sampling	

Data Quals	!																																								
Flag Codes																											_											œ			
Unit Meas.	990	nge	ngg	990		วยก	99n	2017	100	วยก	วยก	DDN	990	990	990	99N	ออก	990	DGG	ออก	99N	DGG	990	วอก	99N	99N	ngg	990	990	990	DBU	Dgg	DOO	OGG	000	ออก	990	1000 1000	990	ngg	990
Conc.	.51	667.	1.27	2.5		۲. ت	5.5	202	25.	.25	.249	.245	8.70 E -2	1.01	1.22	37000	31000	32.7	1060	2700	7	21.8	1300	20	12.5	82.9	12.7	161	1.02	.427	29.2	32.1	21.6	57.3	95.6	1770	12.4	1.7	2.5	-17	.33
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Analyte Description	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine * Cyclotetramethylenetetranitramine	<pre>Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / *</pre>	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	2 2-Dis (viteocoor)	2,Z-81s L(n) Ll OOXY //we** 2-Nitrotol uene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Silver	Cyanide	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol
CAS No.	121-82-4	2691-41-0	479-45-8	55-63-0	000	606-20-2 78-11-5	6-11-0/	88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	7439-97-6	7440-22-4	57-12-5	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	7440-09-7	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	2440-66-6	7440-70-2	7782-49-2	100-01-6	100-02-7	100-51-6	105-67-9
Meth/ Matrix	LW32/S												3/90ar	JC02/S	KY04/S	7515f																						LM30/			
Lab Lab Anly. No.	31607												31607			31615																							٠.		
Lab													2 PC			မ																									
Sample Date	30-JAN-92												30-JAN-92			0.0 30-JAN-92																									
Depth	0.0												0.0		•	0.0																									
Field Sample No.	\$5803											1	S5S03			\$5804																									
Site ID	S5S03															S5S04																									
Site Type	SURF																																								

* - Analyte Description has been truncated. See Data Dictionary

Site ID \$5\$04

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

	Data Quals	: : :																																											
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	Unit Meas.	1	990	99N	990	990	9911		9911	550	991	2011	990	990	990	990	990	9911	ngg	990	990	9911	901	500	ยยา	166	250	991	50	P 25	99n	3	UGG	990	550	1190		990	991	9911	7 DE 1	590	990	DOU	nec
	Conc.	*	.18	.17	.33	.17	17		1.6	17	6	22	.26	.17	.29	. 28	.31	26.	.17	.17	.25	17			17	7	22	27	72.	1 7	.27	į	.84	.58	17	2)	2.		6	17	8.	.32	.27	.35
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01-JAN-91 24-0CT-94	Analyte Description		p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,D]pyrene	Benzo(b) fluoranthene / 3.4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzo[a]pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	1,3-Dichlorobenzene	Benzo[a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate
Juste Range: 01-JAN-91	CAS No.		106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		534-52-1	541-73-1	56-55-3	59-50-7		606-20-2	621-64-7	65-85-0	67-72-1	77-47-4	78-59-1	83-32-9	84-66-2
Sampt 1ng	Meth/ Matrix		LM50/																																										
	Lab Anly. No.		PC 51615																																										
	Sample Date	20	JAN-DC														•																												
	Depth		0.0																																										
	Field Sample No.	70333	97904																																										

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

Field Sample No. 1

Site ID S5SO4

Site Type

Data Quals	:																																										
Flag Codes	1 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2														œ							œ			æ	v		·															
Unit Meas.	กริด	990	990	990	99n	990		990	990	nge	nge	990	990	ngc	990	990	990	ยยก	990	990		บอด	บอด	000	nge	990	990	990	อยก		ยยก	บอด		วอก	9 9 0		กิดด		99n	กาก	9911	090	990
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Analyte Description	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9M-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	Unknown compound 531	Unknown compound 535	Unknown compound 631	Unknown compound 650	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	ri initrate	<pre>2,6-Uinitrotoluene PEIN / Dentaerwith:its totmomitmote /</pre>	2.2-Bisf(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene
CAS No.	84-74-2	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		69-09-2							118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		000-20-2 78-11-5	:	88-72-2	99-08-1	99-35-4
Meth/ Matrix	LM30/																												LW32/S							•							
Lab Lab Anly. No.	PC 31615																																										
Lab	5																																										
Sample Date	30-JAN-92																																										
Depth	0.0																																										

* - Analyte Description has been truncated. See Data Dictionary

24-001-94

Field Sample No. S5SO4

Site Site Type ID ---- SURF S5S04

\$5804

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-0CT-94

Data Quals	6 6 1																																							
Flag Codes	1 1 1					ı	- +	- 1														-															-			
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Analyte Description	1,3-Dinitrobenzene	4-Nitrotoluene Mercury	Silver	Cyanide	Reprachior epoxide		PCB 1260		PCB 1232	PCB 1248	PCB 1016	Aldrin	alpha-Hexachlorocyclohexane / alpha-	Benzene hexachloride	Deta-Rexachlorocyclohexane / beta-	delta-Hexachlorocyclohexane / delta-	Benzene hexachloride	Endosulfan II / beta-Endosulfan	2,2-Bis(p-chlorophenyl)-1,1,1-	trichloroethane	alpha-Chlordane	PCB 1242	Endrin ketone	gamma-Chlordane	Lindane / gamma-Benzene hexachloride	/ gamma-Mexachlorocyc*	Dieldrin	Endrin	Methoxychlor / Methoxy-DDT / 1,1'-	(2,2,2-Trichloroethylide*	phoup / 1,1-Dichloro-2,2-bis(p-	2 2-Ris(n-chlorophany) 1-1 1-	dichloroethene	Endrin aldehyde	Heptachlor / 1H-1,4,5,6,7,8,8-	Heptachloro-3a,4,7,7a-tetrah*	Toxaphene / Chlorinated camphene /	Camphechlor / Alltox / *	Endosultan I / alpha-Endosulfan	Ethylbenzene
CAS No.	0-59-66	96-66-66	7440-22-4	3/-12-5 102/-57-2	1024-37-5 1031-07-8	1104-28-2	11096-82-5	11097-69-1	11141-16-5	12672-29-6	12674-11-2	309-00-2	319-84-6	240.05.7	1-60-616	319-86-8		33213-65-9	50-29-3		5103-71-9	53469-21-9	53494-70-5	5566-34-7	58-89-9		60-57-1	8-07-7/	72-43-5	77-57	0-40 31	72-55-9		7421-93-4	29-44-8		8001-35-2	0 00	727-78-8	4-14-001
Meth/ Matrix	LW32/S	3B06/S	JC02/S	1,1107	/LU 2/																																		, 72n ,	LM33/
Lab Lab Anly. No.	31615	31615																																						
Lab A	<u>ي</u> د	ည																																						
Sample Date	30-JAN-92	30-JAN-92																																						
Depth	0.0	0.0																																						

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Field Sample No.

Site Site Type ID SSS04

Data Quals	-																																									
Flag Codes	1 1 1																																ď									
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Analyte Description	Styrene / Ethenylhenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	1,2-Dichloroethane	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochtoromethane /	Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	factor totrachlaride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Renzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Ulchloroethene	Fichtorofluoromethane	1, 2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2-	rytene	Aylenes, total combined	trans-1,3-Dichloropropene
CAS No.	100-42-5) !	10061-01-5	107-06-2	108-10-1		108-88-3	108-90-7	124-48-1		127-18-4		156-59-2		C-00-0CI	54-22-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-55-4	, 0, 32	70-07-4	C-19-91	78-95-5	79-00-5	79-01-6	1	79-34-5			
Meth/ Matrix	LM33/	ì																																								
-	PC 31615																																									
Sample Depth Date	0.0 30-JAN-92																																									
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Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

** End of Report - 1630 Records Found **

* - Analyte Description has been truncated. See Data Dictionary

Appendix G
Subsurface Soil Data

Field Sample No. S10B11-C

Site Site
Type ID
BORE 91811C

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

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ć	נסוב:	772	<u>.</u>	1.01	.25		.251	.51		667.	1.27		2.5		٠.	2.5		.505	.251	.25	.249	.245	8.70 E	7500	21000	10	274	41.1	4	7.5	218	20	12.5	82.0	12.6	; ; ;	767	27.6	7 68	. r.	7 72	15.0	100	, 21	t.7	יר י
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Anslyte Decription	אומניליני פכסכו וארוסוו	Total organic carbon	Nitrite, nitrate - nonspecific	Silver	2,4,6-Trinitrotoluene / alpha-	Irinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium		Cyanica
CAS NO.			14797-55-8	7440-22-4	118-96-7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5	1	88-72-2	99-08-1	99-35-4	99-65-0	0-66-66	7439-97-6	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-36-0	7440-39-3	7440-41-7	2440-43-9	7440-47-3	7-85-0552	7440-50-8	7440-62-2	2440-66-6	7440-70-2	7782-49-2	E7.42.E	
Meth/		s/ 00	s/ 66	JC02/S	LW32/S				•														3/908r	JS14/S																					2/ ///	
Lab Anlv. No.		PC 23400																					23400																							
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Sample Date		22-JAN-92																				:	22-JAN-92																							
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Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

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Analyte Description		Nitrite, nitrate - nonspecific	Silver 2 % 4-Trimitrotoluomo / almha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel.	Potassian	Coding	That Lium	Antimony	Barium	Bervilium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Cvanide	Nitrite, nitrate - nonspecific	
CAS No.		14797-55-8	/440-22-4 118-06-7	2	121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	7439-97-6	7429-90-5	7439-89-6	7439-92-1	7439-95-4	2439-96-5	7-86-657	0-20-0772	2-60-0772	5-56-0772	7440-28-0	7440-36-0	7440-39-3	7440-41-7	2440-43-9	2440-42-3	7440-48-4	8-05-047	7440-62-2	9-99-077	7440-70-2	2-67-2822	57-12-5	14797-55-8	
Meth/ Matrix		s/ 66	3/2026	2/12																	3/908r	JS14/S	•																				KY04/S	s/ 66	
Lab Lab Anly. No.		23418																			23418																							23426	
Lab An		PC 2																			PC 2																							PC 2	
Sample Date		22-JAN-92																			10.0 22-JAN-92																							22-JAN-92	
Depth		10.0																			10.0																							15.0	
Field Sample No.		S10B12-C							1												S10B12C																							S10B13-C	
Site ID		91B11C																																											
Site Type		BORE																																											

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Flag	Codes			
Ilnit	Meas.	:	UGG	nec
	Conc.		1.01	52.
Meas.	Bool.		5	Ξ
	Analyte Description		Silver	2,4,6-Trinitrotoluene / alpha-
	CAS No.		JC02/S 7440-22-4	118-96-7
Meth/	Matrix		JC02/S	LW32/S
Lab	Lab Anly. No.	:	PC 23426	
Sample	lo. Depth Date		0 22-JAN-92	
	. Dept		<u>.</u>	
Field	Sample No		S10813-C	
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Site	- Abe			

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	Conc.	!!!!!!	1.01	.25		.251	15	•	007	144	1.27		2.5		'n	2.5		.505	75.7	įκ	5.	642.		8.70 E -2	8800	20000	10	138	31.6		1 4	(,)	142	20	12.5	82.9	9.23	.25	.427	28	7.46	57 6	40.3	12.5	109	12.4	1.22	- ;	1.01
Meas.	Bool.	1 1	ב			_	7		-	- t	-		ב		Ľ	ב		_	<u>-</u>	· ;-	- <u>-</u>	<u>.</u> .	֓֞֞֞֓֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	_			רַ	ב	i	-		_ ;	<u>⊢</u> !	=		ב		L	ב						=	ב	ב	₽ :	5
	Analyte Description		Silver	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Total / N-Gothal N 2 / /	letryt / N-Metnyt-N, Z, 4, O-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PEIN / Pentaerythritol tetranitrate /	oxy)me*	2-Nitrotoluene	3-Nitrotoluene	1.3.5-Trinitrobenzene	1 3-Dinitrohenzene	/ - Witnotolion	4-NICIOIOIGE	mercury	Aluminum	Iron	Lead	Magnesium	Manganese	Molyhdanim	Nickel	00400	Potassium Potass	SOC LUM	ייי	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium		Nitrite, nitrate - nonspecific	level.
:	CAS No.	, , , , , , , , , , , , , , , , , , , ,	7-77-055	118-96-7		121-14-2	121-82-4		2691-41-0	4.70-7.5-8	0-17-414		55-63-0	;	606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-65-06	0-00-00	7,70,02,7	0-16-6691	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7-86-6577	7440-02-0	27,40-00-7	7.70-07-7	6-67-0447	0-97-0+4/	7440-36-0	7440-59-5	7-14-044/	7440-43-9	2440-42-3	7440-48-4	7440-50-8	7440-62-2	2440-66-6	7440-70-2	7782-49-2	57-12-5	14797-55-8	4-77-044
Meth/	Matrix	4,000	JC02/S	LW32/S																			3/ 7001	2000	JS14/S																						KY04/S	S/ /S	COE/3
Lab	Lab Anty. No.	Dr 327.34																					7672C JG																									PC 25454	
•	n Date	,																					72-JAN-02																									26-JAN-72	
	nebru	15.0																					15.0	•																							6	70.0	
Field	sample no.	S10813-C	2-019016																				S10813C																								0-710013	100.0	

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Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-OCI-

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t/ 100 t2		Analyte Description	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Ullitrotottene RNX / Cyclopite / Mexabydro-1 2 5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nicket	Potassium	Sodium	That I i i m	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium		Nitrite, nitrate - nonspecific	Silver	
יייי אמוארי		CAS No.	118-96-7	121-17-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	9-26-6572	7429-90-5	2439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-36-0	7440-39-3	7440-41-7	6-27-0552	2440-47-3	7-87-0552	7440-50-8	2-29-0552	9-99-0552	2-02-0552	7782-49-2	57-12-5	14797-55-8	118-96-7	
Simbolina	Meth/	Matrix	LW32/S																	3/90gr	JS14/S																					KY04/S	s/ %	JC02/S LW32/S	
	Lab	. No.	PC 23434																	23434																							2 3 442		
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	Sample	Date	22-JAN-92																	22-JAN-92																							30.0 22-JAN-92		
	•	Depth	20.0																	20.0																							30.0		
		Sample No.	S10B14-C																	S10B14C			-																				S10B16-C		
	Site	≘ :	91B11C																																										
	Site	Type																																											

^{* -} Analyte Description has been truncated. See Data Dictionary

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Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

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	Flag	2000																																								٠	
	Unit		990	9	3 0 1 1 1 1 1	3	บอก	99N		990		990 1	ก	990	990	ยูยก	990	990	ngg	DOU	990	990	990	990	000	DOO	99N	99N	DOO	99N	บอด	990	990	บูบูก	5 5 0	99n	99n	99n	990	99	00rg	30	990
	Conc	2 :	.25	• 30	163.	-	667.	1.27		2.5	ı	ر. ر	6.3	.505	.251	.25	.249	245	8.70 E -2	11000	19000	10	273	57	7	7.5	278	20	12.5	82.9	15.4	.25	775.	15.2	9.56	15.1	35.3	30.6	. 00. 106	12.4	77.1	09/0	82.9
	Meas.		17	<u>-</u>	<u> </u>	i	[]	ב		_	!	<u>-</u> :	5	-	7	רו	L	7	5			7			LT	ᅼ		ב	ב		!	<u> </u>	-					!	<u>.</u> .	<u>_</u>	<u>.</u>	Ş	<u> </u>
ate Range: 01-JAN-91 24-0CI-94	Analyte Description		2,4,6-Trinitrotoluene / alpha-		RDX / Cyclonite / Hexahydro-1.3.5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	(Finitiate	<pre>2,0-Dinitrologuene DETU / Dentaervthrite</pre>	2.2-Bisf(nitrooxv)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Atuminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Barica	Beryl Llum	Caumum	Caromitan	Cobalt	Copper	Vanadium	Z1NC	כמוכוחוו	Conide	Total organic carbon	Nitrite mitrate - momenonific	
Date Range:	CAS No.		118-96-7	121-14-2	121-82-4		2691-41-0	479-45-8	1	0-60-66	0.00-303	28-11-5	· :	88-72-2	99-08-1	66-35-4	0-59-66	0-66-66	2439-97-6	7429-90-5	2439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-36-0	7440-29-5	7-14-044/	7//0-/7-2	(-/t-0+t/	7//0-50-4	0-00-044/	7-70-044/	0-00-07/2	7-01-0441	77-12-5	1	14797-55-8	7440-36-0
Sampling D	Meth/ Matrix	:	LW32/S																3/908f	JS14/S																						× × ×	/ 66
	Lab Lab Anly. No.		PC 23442																PC 23442																						PC 38911		
	Sample Date		2																22-JAN-92																						01-FEB-92		
	Depth	:	30.0																30.0																						0.0		
	Field Sample No.		S10B16-C											,					S10B16C																						S091B11D		
	Site ID	:	918110																																						918110		
	Site Type	:	BORE																																								

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data Quals	1																							¥		¥	¥		×	<u>~</u>		¥		¥	¥		¥	¥	¥	¥	¥		
Flag Codes	; 1 1 1											-																															
Unit Meas.	990	000 1166	990	990	99N	990	99N	990	99N	99N	990	99N	DOO	99N	990	99N	990	nee	990	nge	990	กดด	กดิด	กดิด		000	990		990	990		9 9 0		990	990		990	990	990	99N	990	990	000
Conc.	8.70 E -2	1.01 9500	13000	10	345	29.3	4	12.2	824	20	12.5	12.7	7.74	.25	.427	18.8	9.91	14.5	24.9	30.3	109	12.4	1.22	.25		.251	.51		665.	1.27		2.5		5.	2.5		.505	.251	.25	.249	.245	8.70 E -2	
Meas. Bool.	5	=		11			5			=	ב	Ş		5	_						LT	ב	LT	5		<u> </u>	<u>_</u>		<u>_</u>	ב		ב		ב	ב		ר	רו	רו	ב	LT	ב	ב
Analyte Description		Silver Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	Z,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Silver
Meth/ Matrix CAS No.		JC02/S /440-22-4 JS14/S 7429-90-5		7439-92-1	7439-95-4	2439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	2440-47-3	7440-48-4	2440-20-8	7440-62-2	2440-99-9	7440-70-2		KY04/S 57-12-5	32/5 118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		22-63-0		7-07-909	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66	_		JC02/S 7440-22-4
Lab Anly. No. Mai		ָבְי פּאַ																					K	1																		38920 JB	OF.
Sample 5. Depth Date	0.0																																										
Site Field ID Sample No.																																											
Site Type	BORE																																										

* - Analyte Description has been truncated. See Data Dictionary

9 -

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data Quals	1		×		×	¥		~	~	:	32	•	7	۷ ک	۷	7	۷)	∠ :	~	¥	~																											
Flag Codes	1 1 2																					-	-						,	_					-												_	-
Unit Meas.	1 1	000	บบก		บอด	990		990	วรก		990	!	9911	391	200	3311	900	กอด	990	99n	990	990	990	991	991	20 -	990	900	กกก	100	วอก	nec	99N	990	990	บอด	9911	9911	950	551	กอบ	990	990	nee	ngc	990	DDN	99n
Conc.	!	1.22	.25		.251	.51		667.	1.27		2.5		Ľ	;	,	505	25.		9	. 249	.245	-	82.9	8800	13000	5	202	3 5	- fo	4.73	16.2	819	20	12.5	12.7	7.8	.25	427	37.5	;;		- 6	707	25.3	109	12.4	_ ;	82.9
Meas. Boot.	!		Lī	!	_ :	Lı			-1		רַ			<u> </u>	i	-	; -	<u>.</u>	5!		ᆸ	Q.	QN			_							_	5	Q			5						1	<u>-</u> :	<u> </u>	Q :	9
Analyte Description		Cyanide	2,4,6-Trinitrotoluene / alpha-		2,4-UINITrototuene	KUX / Lyclonite / Hexanydro-1,5,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PEIN / Pentaervthritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1 3 5-Trinitrohopsono	1 2-0 in that have	1,3-Uinitropenzene		Nitrite, nitrate - nonspecific	Antimony	Aluminum	Iron	Lead	Magnesium	Mandanese	Model who was a second	Ni Choi	Nicket	rotassium.	Socium	Thallium	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vapadium		2100	Calcium		Antimos, nitrate - nonspecific	Antimony
CAS No.		57-12-5	118-96-7	131.47.5	7-61-121	4-79-171	,,,,,,,	0-14-1697	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	7-52-00	00-45-0	0-60-66	0-66-66	14797-55-8	7440-36-0	7429-90-5	2439-89-6	7439-92-1	7439-95-4	7439-96-5	2-80-6272	0.50-03/7	0-70-07/2	7 70 07/7	C-CZ-0++/	7440-28-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7-87-0552	8-05-0772	2-69-0772	7.70-64-6	2//0-20-0	7-07-0447	1707-55-8	0-66-14141	0-00-044/
Meth/ Matrix		KY04/S	LW32/S																			s/ 66	66	JS14/S																							c	
Lab Lab Anly. No.	00000	PC 38920																				PC 38920																								PC 38038		
Sample Date	20, 417, 10	01-re8-92																			2	3.0 UI-FEB-92																								10.0 02-FFR-92	1, 1, 1,	
Depth		0.0																				٥.٠																								10.0	:	
	C0010110	307 18 1 10																																														

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: GSO Sampling Date Range: 01-JAN-91 24-OCT-

Site ID ----91B11D

Site Type BORE

24-001-94

Data Quals	<u>х хх хх х хххх</u>
Flag Codes 	⊢ ⊢
Unit Meas. UGG UGG UGG UGG UGG UGG UGG UGG UGG UG	990 990 990 990 990 990 990 990 990 990
Conc. 8.70 E -2 1.01 4410 9900 169 28.1 4.87 12.5 12.5 12.7 4.87 4.87 12.7 4.87 12.5 12.5 12.7 4.87 25.8 14.7 25.8	12.4 .25 .251 .499 1.27 2.5 .25 .25 .249 .249 .245 .245 .245
Meas. Bool. LT LT LT LT LT LT LT LT LT LT LT LT LT	
Analyte Description Mercury Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Arsenic Barium Beryllium Cobalt Copper Vanadium Zinc Calcium	Selenium 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1,3,5- trinitro-1,3,5-triazine * Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate 2,6-Dinitrotoluene PEIN / Pentaerythritol tetranitrate / 2,2-Bis[(nitrobxy)me* 2-Nitrotoluene 3-Nitrotoluene 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 4-Nitrotoluene Nitrite, nitrate - nonspecific Antimony Mercury
CAS No. 7439-97-6 7439-97-6 7440-22-4 7439-96-5 7439-96-5 7439-96-5 7440-09-7 7440-23-5 7440-48-4 7440-50-8 7440-66-6 7440-70-2 7440-70-	7782-49-2 118-96-7 121-14-2 121-82-4 2691-41-0 479-45-8 55-63-0 606-20-2 78-11-5 88-72-2 99-08-1 99-55-0 14797-55-8 7440-36-0
Meth/ Matrix JB06/S JC02/S JS14/S	1W32/S 1W32/S 99 /S 99 /S
Lab Anly. No.	PC 38946
Sample Date 02-FEB-92	22.5 03-FEB-92
10.0	22.5
Field Sample No.	

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

	Data																											¥	•	٥	~ 2	¥		¥	¥	2	~	7	۷ ک	4	~	: <u>\</u>	: <u>~</u>	: 4	: > <u>~</u>	:		
	Flag	200													_																															-	_	
	Unit		nee	ngg	ngg	000	nee	1166	200	550	ם מכו	บเรา	000	บเเ	nee	990	99N	990	9911	990	991		000	ม การ	Dec	nee	990	990	j j	2211	200	กรด		ngg	990	-	กอก	וופט	100		nee	nge	990	990	990	990	DOO	990
	Conc.	:	1.01	14000	21000	10	422	75.7	:	1 4	1.51	000	2.5	16.5	12.7	11.4	.406	.427	29.3	14.2	16.8	73.5	2, 7	24.0	109	12.4	1.22	.25	į	25.1	ġ.	·.		.499	1.27		6.3	L,	2.5	,	.505	.251	.25	576	.245	_	82.9	8.70 E -2
	Meas. Boot.					ב			<u>-</u>	;			<u>:</u>	5	2			ב							_	ב	ב	ב		<u>-</u>	; <u>-</u>	5	!	<u>.</u>	_	-	5		1	i	ר	[1		11		2	용	5
	Analyte Description		Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Wickel	Potassiem		Thorn of the		Arsenic	Barıum	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadim	7100	7:10 E:01-01	בשוניות!!!	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2 4-Dinitrotoluene	RDX / Cyclonite / Hexabydro-1 3 5-	trinitro-1 3 S-trinaine *		cyclotetrametnylenetetranitramine	tetryl / N-metnyl-N,Z,4,6-	Nitrodycerine / 1 2 %_December / "	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	xy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Nitrite, nitrate - nonspecific	Antimony	Mercury
1	CAS No.		7440-22-4	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0772	77.70-22-5	0-82-0447	7,70	7-85-044/	7440-59-5	/-L5-055/	2440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	7440-66-6	2,02-07,7	7-07-0447	7-65-79//	57-12-5	118-96-7		121-14-2	121-82-4		0-17-1070	0-14-1607	0-64-674	55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-69-66	0-66-66	14797-55-8	7440-36-0	7439-97-6
•	Meth/ Matrix		JC02/S	JS14/S																							KY04/	LW32/S																		s/ 66	/ 66	7806/
	Lab Lab Anly. No.		PC 38946																																											PC 38954		
	Sample Date		US-FEB-92																																											25.0 03-FEB-92		
	Depth		۲۲.5																																											25.0		
	Field Sample No.		S09 IB 1 ID																																													
,	Site 10		718110																																													
•	Site Type																																															

* - Analyte Description has been truncated. See Data Dictionary

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

54-0C1-94
 01-JAN-91
Sampling Date Range:

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	Flag	codes												_																													-	 	
	uni t	Meas.	990	990	990	990	990	990	ngg	990	990	990	990	000	990	990	990	990	990	990	990	990	990	990	9911	991		9911	990	•	บอด	990		990		99 0	กรา	991	990	990	000	000	990	990	990
		conc.	1.01	14,000	19000	10	394	32.6	4	9.85	468	20	12.5	12.7	11.7	.412	.427	15.2	13.5	18.1	35	34.3	109	12.4	1.22	.25		251	. 51		664.	1.27		2.5	ı	٠. '·	6.3	505	.251	.25	.249	.245	-	82.9	8.70 E -2
	Meas.	. 1008	5			5			-			17	: 5	9			5						-	[1		i		_	; 5		ב	_		ב		<u> </u>	5		·	ב	5	5	오	2	=
		אופוארב הפסרו ולהרוסוו	Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2.4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3.5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,0-Vinitrotoluene		2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Nitrite, nitrate - nonspecific	Antimony	Mercury
,	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		7440-22-4	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	9-99-057	7440-70-2	7782-49-2	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		22-63-0	6 6	000-20-2 78-11-5		88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	14797-55-8	7440-36-0	2439-97-6
-	Meth/	Y1111	JC02/S	JS14/S																					KY04/	LW32/S																	s/ 66	/ 66	/908r
	Lab		38954																																								38962		
	4		PC																																								၁		
	Sample	•	0																																								35.0 04-FEB-92		
	4		25.0																																								35.0		
	Field Sample No	· Ou Ordingo	S091B11D																																										
	Site	·	918110																																										

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

	Data Quals		* ** ** * ** ****
	Flag Codes	} -	├
	Unit Meas.		990 990 990 990 990 990 990 990
	Conc.	1.01 9600 13000 10 247 32.2 4 7.5 343 50 12.7 11.7 10.5 10.5	2.5 .25 .499 .499 1.27 2.5 2.5 .251 .249 .249 .249
	Meas. Bool.	בני בני בני ב	פלפלללל לל לל לל
	Analyte Description	Silver Aluminum Iron Lead Magnesium Manganesium Manganesium Manganesium Molybdenum Nickel Potassium Sodium Thallium Arsenic Barium Cadmium Chromium Cobalt Copper Vanadium Sinc Calcium	2,4,6-Trinitrotoluene / alpha- 1,4,6-Irinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1,3,5- trinitro-1,3,5-triazine * Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitraaline / Nitramine / * Nitroglycerine / 1,2,3-propanetriol trinitrate 2,6-Dinitrotoluene PEIN / Pentaerythritol tetranitrale / 2,2-Bis[(nitrooxy)me* 2-Nitrotoluene 3-Nitrotoluene 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 4-Nitrotoluene Nitrite, nitrate - nonspecific Cyanide Arsenic
I	CAS NO.	7440-22-4 7440-22-4 7429-90-5 7439-98-6 7439-98-7 7440-03-7 7440-43-9 7440-43-9 7440-43-9 7440-43-9 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 742-49-2	118-96-7 118-96-7 121-14-2 2691-41-0 479-45-8 55-63-0 606-20-2 78-11-5 88-72-2 99-08-1 99-35-4 99-55-0 99-99-0 14797-55-8 57-12-5
	Meth/ Matrix	JS14/S JS14/S	LW32/S LW32/S 89 /S 89 /S
	Lab Lab Anly. No.	38962	01162.2
	Lab	<u>.</u> 5	S.
	Sample Date	04-FEB-92	5.0 10-JAN-92
	Depth	35.0	0°5
	Field Sample No.	S091B11D	S091B12
	Site Site Type ID	BORE 91811D	91812
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^{* -} Analyte Description has been truncated. See Data Dictionary

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Field Sample No. Depth Soy1812 5.0 1

Site ID ----91812

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO 24-OCT

24-001-94

Data Quals		
Flag Codes		⊢ ⊢
Unit Meas.	090 090 090 090 090 090 090 090	990 090 090 090 090 090 090 090 090 090
Conc.	8.70 E -2 5700 21000 20.3 334 650 4 77.5 142 78.5 12.5 82.9 30.9 30.9 21.4 9.44	1140 12.4 1.22 12.7 8.70 E -2 3200 16000 10 13.8 72.1 4.7 7.5 12.5 82.9 8.85 .25 .427 33.6 7.23 3.38
Meas. Boot.	5 555 55 5	- dd ddddd dd - d 9:19:
Analyte Description	Mercury Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Barium Cadmium Chromium Chromium Chromium Chromium Chromium Chromium Chromium Chromium Chromium Chromium Chromium	Calcium Selenium Nitrite, nitrate - nonspecific Cyanide Arsenic Mercury Aluminum Iron Lead Magnesium Manganese Molybderum Nickel Potassium Sodium Thallium Antimony Barium Beryllium Cadmium Cobalt Copper
CAS No.	7439-97-6 7439-97-6 7439-98-7 7439-98-7 7440-03-9 7440-28-0 7440-28-0 7440-43-9 7440-43-9 7440-43-9 7440-43-9	7440-70-2 7782-49-2 14797-55-8 57-12-5 7440-38-2 7439-89-6 7439-89-6 7439-89-7 7440-02-0 7440-02-0 7440-28-0 7440-28-0 7440-41-7 7440-43-9 7440-43-9
Meth/ Matrix		99 /S KY04/S 99 /S JB06/ JS14/
Lab Lab Anly. No.	11622	01163.0 1163.0 11630
Lab /	2	2
Sample Date	10- JAN-92	10.0 10-JAN-92
Depth	0.0	0.01

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Field Sample No. Depth S091B12 10.0 1

Site Site Type ID ---- ----BORE 91B12

Data Quals	. r		
Flag Codes	;	⊢ ⊢	⊢
Unit Meas.	99n 99n		
Conc.	8.72	1.22 1.22 12.7 8.70 E -2 4,190 10 138 124 4,7 142 64.7 12.5 82.9 6.47 27.25 27.25 27.29	12.4 12.4 12.7 12.7 12.7 13.8 14.4 4 7.5 14.2 66.1 12.5 14.2 66.1
Meas. Bool.	55	:8:8:	559595 5 555 55 559595
Analyte Description	Zinc Zinc Calcium Selenium	Nitrite, nitrate - nonspecific Cyanide Arsenic Mercury Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Barium Cadmium Chromium Cobalt Copper	Calcium Selenium Nitrite, nitrate - nonspecific Cyanide Arsenic Mercury Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Barium
CAS No.	7440-66-6 7440-70-2 7782-49-2	14797-55-8 57-12-5 7440-38-2 7439-97-6 7439-90-5 7439-92-1 7439-92-1 7439-92-1 7439-92-1 7439-92-1 7440-00-7 7440-38-0 7440-47-3 7440-47-3 7440-46-6	7440-70-2 7782-49-2 14797-55-8 57-12-5 7440-38-2 7429-97-6 7429-97-6 7439-99-5 7439-98-7 7440-02-0 7440-23-5 7440-23-5 7440-39-3
Meth/ Matrix	J\$14/	99 /S KY04/S 99 /S JB06/ JS14/	99 /S KY04/S 99 /S J806/ JS14/
Lab Lab Anly. No.	11630	01164.9 11649 11649	01165.7 1165.7 11657
Lab A	2	D	DG.
Sample Date	10-JAN-92	10-JAN-92	20.0 10-JAN-92
Depth	10.0	15.0	20.0

* - Analyte Description has been truncated. See Data Dictionary

Installation :Anniston	File Type: C

24-001-94

Site Site Type ID

opendix Report on AD, AL (AN) CSO

24-0C1-94	
01-JAN-91	
Date Range:	
Sampling	

Data Quals	1 1																																												
Flag Codes	1												-																									-							
Unit Meas.	1 1	990	990	990	ออก	บอด	บดด	บบด	ngg	nge	บบ	990	990	990	ออก	000	บอด	ngg	บยด	nge	ngg	ngg	990	990	990	990	990	990	990	ngg	990	990	990	990	990	990	990	ngg	000	991	550	991	990	200	99n
Conc.	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	.25	.427	28.4	10.8	69.6	30.1	15.3	109	12.4	2.58	1.22		8.70 E -2	4190	13000	9	138	43	7	7.5	142	20	12.5	82.9	4.87	.25	.427	12.5	7.33	6.47	25.8	7.79	109	12.4	1.41	1.22	12.7	8.70 E -2		5800	į -	821	7 70	4
Meas. Bool.	t 	ב	רַ						ΓŢ	LT		רַ	Q.	Ľ			ר	ב		רַ	ר	רז	ר	ב	רו	ב	ב	ב						ב	ב		רו	Ş	רז			_	; <u>-</u>	5	רז
Analyte Description		Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium		Nitrite, nitrate - nonspecific	Cyanide	Arsenic	Mercury	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium		Nitrite, nitrate - nonspecific		Arsenic	Mercury	Aluminum	Iron	Lead	Magnesili	Mandands	Molybdenum
CAS NO.		7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	2440-66-6	7440-70-2	7782-49-2	14797-55-8	57-12-5	7440-38-2	7439-97-6	7429-90-5	2439-89-9	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-05-2	7440-23-5	7440-28-0	7440-36-0	7440-39-3	7440-41-7	2440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	2440-66-6	7440-70-2	7.85-49-2	14797-55-8	57-12-5	7440-38-2	2439-97-6	7429-90-5	2439-89-6	7439-92-1	7439-95-4	5-90-0272	7439-98-7
Meth/ Matrix		JS14/									s/ 66	KY04/S	s/ 66	7808/	JS14/																					S/ 66	KY04/S	S/ 66	JB06/	JS14/					
Lab Lab Anly. No.		11657									01166.5		1166.5	11665																						01167.5		1167.3	11673						
											ည																								i	٦ ک									
Sample Date		10-JAN-92								,	25.0 10-JAN-92																									52.0 11-JAN-92									
Depth		20.0									25.0																								6	52.0									
Field Sample No.		S091B12																																											

^{* -} Analyte Description has been truncated. See Data Dictionary

Site Site Type ID BORE 91812

24-001-94 Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

* - Analyte Description has been truncated. See Data Dictionary

Site ID ----91B12

Site Type BORE

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

Data Quals																																										
Flag Codes	1																																									
Unit Meas.	DDN	กดด	000	990	990	990	990	000	000	ngg		990	nee		990	990	-	บอเ	3311	ກຸກດ	nec		990	990	990	990	990	DDN	000		DDU	990		000	990		nec		000	กุกก	nge	
Conc.	2.5	٠. '	2.5	.505	.251	.25	.249	. 245	1.01	.25	ļ	.251	.51	8	444	1.27	c	6.5	Ľ	;	۲.,	101	coc.		.25	. 249	.245	1.01	.25		.251	.51		667.	1.27		2.5	u	٠. ^د	۲.3	.505	
Meas. Bool.		17	5	5	'	ב	ר	ב	ר	ר		ב	_		<u>.</u> :	5	-	5	-	- 1-	_	<u>+</u>	_ :	_ !	-1	ב	ב	ר	Ľ		Ľ	Ľ		ר	ר	!	<u>-</u> 1	<u>+</u>	; <u>:</u>	<u>.</u>	Ц	
Analyte Description	Nitroglycerine / 1,2,3-Propanetriol	2,6 Dinitrotoluene	<pre>PEIN / Pentaerythritol tetranitrate / 2,2-Bis[(nitrooxy)me*</pre>	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Silver	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	KDX / Cyclonite / Hexahydro-1,5,5-	Confetenmethal contetent transfer	tycioteti ametnytenetetranitramine	<pre>letiy(/ N-Methy(-N,C,4,0- tetranitroaniline / Nitramine / *</pre>	Nitrodyconing / 1 2 Z-Dangerial	trinitrate	2.6-Dinitrotoluene	1+01+0+000	2 2.Bic(faitrock)mo*	2-Nitrotolingo	Z-Mithotolucie	J-Will ololuene	1,5,5-Irinitrobenzene	1,5-Dinitrobenzene	4-Nitrotoluene	Silver	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,5-Propanetriol	trinitrate 2 k-Dinitratolisas	PETM / Pentaerythritel tetramitrate /	2.2-Bis[(n)trooxv)me*	2-Nitrotoluene	
CAS No.	55-63-0	606-20-2	C-11-9)	88-72-2	99-08-1	99-35-4	0-69-66	0-66-66	7440-22-4	118-96-7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7-51-171	4-78-171	2401-7.1-0	70-14-1-07	0-(4-4)4	0-29-55		606-20-2	78-11-5		88-72-2	00-08-1	77-00-1	99-55-4	0-69-66	0-66-66	7440-22-4	118-96-7	,	121-14-2	121-82-4		2691-41-0	8-45-674	0 67	0-60-66	606-20-2	78-11-5		88-72-2	
	LW32/								JC02/S	LW32/																		JC05/8	LW32/													
Lab Lab Anly. No.	PC 11630								PC 1164.9	11649																		PC 1165.7	11657								-					1000
Sample Date	10-JAN-92								10-JAN-92																			20.0 10-JAN-92														700
Depth	10.0								15.0																		0	70.0														4
Field Sample No.	s091B12C																																									4 6 4

^{* ·} Analyte Description has been truncated. See Data Dictionary

Data Quals

24-0CT-94

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Site ID	Field Sample No.	Depth			Lab Lab Anly. No.	Meth/ Matrix	CAS No.	Analyte Description	Meas. Bool.	Conc.	Unit Meas.	Flag
									:	:	:	
91B12	S091B12C	20.0	10-JAN-92	ည	11657	LW32/	99-08-1	3-Nitrotoluene	-1	.251	ngg	
							99-35-4	1,3,5-Trinitrobenzene	-	52:	000	
							69-69-0	1,3-Dinitrobenzene	<u>-</u>	546	990	
							0-66-66	4-Nitrotoluene	-	. 245	9911	
		25.0	25.0 10-JAN-92	<u>გ</u>	11665	JC02/S	7440-22-4	Silver	: 5	1.01	990	
						LW32/	118-96-7	2,4,6-Trinitrotoluene / alpha-	i	۲,	990	
								Trinitrotoluene	i))	
							121-14-2	2,4-Dinitrotoluene		.251	ngg	
							121-82-4	RDX / Cyclonite / Hexahydro-1,3,5-	1	.51	ngg	
								trinitro-1,3,5-triazine *			1	
							2691-41-0	Cyclotetramethylenetetranitramine	Ľ	667.	UGG	
							479-45-8	Tetryl / N-Methyl-N,2,4,6-	-	1.27	990	
								tetranitroaniline / Nitramine / *				
							55-63-0	Nitroglycerine / 1,2,3-Propanetriol	רַ	2.5	UGG	
								trinitrate				
							606-20-2	2,6-Dinitrotoluene	Ľ	٠.	9911	
							78-11-5	PETN / Pentaerythritol tetranitrate /	ר ו	2.5	990	
								2,2-Bis[(nitrooxy)me*			}	
							88-72-2	2-Nitrotoluene	11	.505	1166	
							99-08-1	3-Nitrotoluene	: =	25.	991	
							99-35-4	1,3,5-Trinitrobenzene	; =	52	991	
							0-65-0	1.3-Dinitrobenzene	; <u>-</u>	0%	201	
								4-Nitrotoluene	_ <u>-</u>	27.5	200	
		32.0	32.0 11-JAN-92	ď	11673	3/ 6031		Si Lion	<u>.</u>	£4.	ספר	
			77	-		11227		31(Ve)	ַ :	 	990	
						/7CM7		2,4,0-Irinitrotoluene / alpha-	_	.25	DGC	
							:	Trinitrotoluene				
							121-14-2	2,4-Dinitrotoluene	ר	.251	ngg	
							121-82-4	RDX / Cyclonite / Hexahydro-1,3,5-	ר	.51	ngg	
								trinitro-1,3,5-triazine *				
							2691-41-0	Cyclotetramethylenetetranitramine	17	667	991	
							479-45-8	Tetryl / N-Methyl-N.2.4.6-	ב' ו	1.27	990	
								tetranitroaniline / Nitramine / *		ı		
							55-63-0	Nitroglycerine / 1,2,3-Propanetriol	רַ	2.5	ngg	
								trinitrate				
							606-20-2	2,6-Dinitrotoluene	ר	٦.	990	
							78-11-5	PETN / Pentaerythritol tetranitrate /	ב	2.5	990	
							88-72-2	2-Nitrotoluene	[1	.505	990	
							99-08-1	3-Nitrotoluene	[1	.251	ngg	
							99-35-4	1,3,5-Trinitrobenzene	_	52:	990	
							99-65-0	1,3-Dinitrobenzene	7	.249	990	
,,,,,							0-66-66	4-Nitrotoluene	-1	.245	UGG	
71814	SY18141C	٥.	20-FEB-92	ე ე	26286	\ 8		Total petroleum hydrocarbons		20.9	990	
						/ 66	14797-55-8	Nitrite, nitrate - nonspecific	Q.	-	990	_

* - Analyte Description has been truncated. See Data Dictionary

Field Sample No. S918142C S918143C S918146C

Site ID ----91814

Site Type S91B151C S91B152C

91815

91B161C

91816

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

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	U1-JAN-91	
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4 - 6	ing pare	
	Samp	

Flag Data	-	·		-	-		-		,-	,-				,-	,	,	,-	,		, -	-		,,,		,-	,-	,=	,-	,=	,=							(5	(=		(7		
Unit	990	990	990	990	990	990	99n	DOU	חפפ			DDN			DDN	99N	DOU	DDO							DDN	990	Ю	990	990	990	990	990		990	990		_	990		990		
. Conc.	-	10	10	-	7	12.2	-	. 144	1.01	14000	23000	136	555	1600	7	21.5	428	278	12.5	82.9	12.7	148	.973	.427	30.1	43.3	45.1	45.1	180	935	12.4	.25		.251	.51		667.	1.27		2.5	ı	L
Meas. Bool.	2	9	2	8	9		Q		11						בו				ב	ב	Q			ב								רו		ב			LT			iol		
 Analyte Description	Nitrite, nitrate - nonspecific	•	_	Nitrite, nitrate - nonspecific		-	Nitrite, nitrate - nonspecific		Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Соррег	Vanadium	Zinc	Calcium	Selenium	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine /	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	000:10:00:0:17
CAS No.	14797-55-8	14797-55-8		14797-55-8	14797-55-8		14797-55-8	9-26-6572	7440-22-4	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2440-09-7	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	9-99-0552	7440-70-2	7782-49-2	118-96-7	;	121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		1
Meth/ Matrix	/ 66	66	00	/ 66	/ 66	\ 00	~	/908r	JC02/	JS14/																						LW32/										
Lab Anly. No.	56294	56308	56316		53350	53368		51438																																		
Lab	¦ ខ្ល	<u>გ</u>	ည		<u>გ</u>	ည		<u>۾</u>																																		
Sample Date	20-FEB-92	20-FEB-92	20-FEB-92		18-FEB-92	18-FEB-92		16-FEB-92																																		
Depth	10.0	15.0	5.0		5.0	9.0		0.5																																		

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID 91816

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

	Data Quals	! ! !				
	Flag Codes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-		
	Unit Meas.	050 050 050 050			990 090 090 090 090 090	990 990 990 990
	Conc.		. 245 8. 70 E - 2 1.01 13000 35000 40.2 644 5.49 61 5.49	12.5 12.7 12.7 191 2.29 .427 24.4 66.8	58.7 124 720 12.4 1.22 .25 .25 .51	1.27 2.5 .5 2.5 2.5
	Meas. Bool.	:	555	ר פרו	ב כב בבב	ב בב ב ב
01-JAN-91 24-OCT-94	Analyte Description	2-Nitrotoluene 3-Nitrotoluene 1,3,5-Trinitrobenzene	4-Nitrotoluene Mercury Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium	That itum Antimony Arsenic Barium Cadmium Chomium Cobalt	Vanadium Zinc Calcium Selenium Cyanide. 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1,3,5- trinitro-1,3,5-triazine * Cyclotetramethylenetetranitramine	<pre>letryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate 2,6-Dinitrotoluene PETN / Pentaerythritol tetranitrate / 2,2-Bis[(nitrooxy)me* 2-Nitrotoluene</pre>
Date Range: 01-JAN-91	CAS No.	88-72-2 99-08-1 99-35-4 99-65-0	7439-97-0 7439-97-6 7429-90-5 7429-92-1 7439-95-4 7439-98-7 7439-98-7 7440-02-0	7440-28-0 7440-36-0 7440-38-2 7440-41-7 7440-43-9 7440-48-4	7440-62-2 7440-66-6 7440-70-2 7782-49-2 57-12-5 118-96-7 121-14-2 121-82-4	479-45-8 55-63-0 606-20-2 78-11-5 88-72-2
Sampling	Meth/ Matrix	LW32/	J806/ J502/ JS14/		KY04/ LW32/	
	Lab Lab Anly. No.		PC 51446			
	Sample Date	16-FEB-92	10.0 16-FEB-92			
	Depth	0.5	10.0			
	Field Sample No.	9181610	9181620			

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94 File Type: CSO Sampling Date Range: 01-JAN-91

Site Site Type 1D

Flag Data Codes Quals	;													⊢	-	-	⊢	⊢	⊢	-	⊢	-	⊢	⊢	⊢	⊢	⊢	-	-	⊢	⊢	⊢	⊢	⊢	-	-	-	⊢	⊢	⊢
Uni t Meas.	99N 99N	חמם:																																						
5		•																																						
Meas. Bool.	; 555	-		. ב ב	בב	.55	.55	55	55	55	.55 5	.55 55	222 223	\$ c c c c c c	\$222 22. \$222	8444	ל פָללל כל:	ב פבבב בב	ל פּללל לל.	ב פנננ בני	ב פנים בי	ב פניבי בי	ב פניבי בב	ב בבב בב:	dd 9ddd dd												te o			
Analyte Description	3-Nitrotoluene 1,3,5-Trinitrobenzene 1 3-Dinitrohenzene	4-Nitrotoluene	Silver	Silver Aluminum	Silver Aluminum Iron	Silver Aluminum Iron Lead Magnesium	Silver Aluminum Iron Lead Magnesium Manganese	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel	Silver Aluminum Iron Lead Maganesium Manganese Molybdenum Nickel	Silver Aluminum Lron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium	Silver Aluminum Iron Lead Manganesium Manganese Molybdenum Nickel Potassium Sodium Thallium	Silver Aluminum Lron Lead Manganesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Gadmium Chromium	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsinc Barium Cadmium Codmium Cobalt	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Cobalt	Silver Aluminum Lon Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Cobalt Copper	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	Silver Aluminum Iron Lead Magnesium Manganese Nolybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Chromium Cobalt Cober Vanadium Zinc	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Cadmium Chromium Cobalt Copper Vanadium Zinc Calcium	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Gadmium Cobalt Copper Vanadium Zinc Calcium Selenium	Silver Aluminum I ron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Cadmium Chromium Cobalt Copper Vanadium Zinc Calcium Selenium Selenium Selenium Cyanide 2,4,6-Trinitrotoluene / alpha-	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Cadmium Cobalt Copper Vanadium Zinc Calcium Selenium Clrinitrotoluene / alpha	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Cobalt Copper Vanadium Zinc Calcium Silvinitrotoluene Z,4,6-Trinitrotoluene Z,4-Dinitrotoluene	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Chomium Cobalt Copper Vanadium Zinc Calcium Setenium Chanitrotoluene / alpha-Trinitrotoluene Z,4.6-Trinitrotoluene Z,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Vanadium Zinc Calcium Selenium Selenium Cyanide 2,4,6-Trinitrotoluene Z,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1 trinitro-1,3,5-triazine *	Silver Aluminum Lead Magnaese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Cadmium Chromium Cyanide Z,4,6-Trinitrotoluene Z,4-Dinitrotoluene	Silver Aluminum Iron Lead Magnesium Morybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Cadmium Chomium Cobalt Copper Vanadium Zinc Cloim Zinc Calcium Selenium Selenium Cyanide Z,4,6-Trinitrotoluene Z,4-Dinitrotoluene	Silver Aluminum Iron Lead Magnesium Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Cabalt Cobper Vanadium Zinc Clobalt Cyanide Z'4,6-Trinitrotoluene / alphar Trinitrotoluene Z'4-Dinitrotoluene Z'4-Dini	Silver Aluminum Iron Lead Magnesium Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Cobalt Copper Vanadium Cobalt Copper Vanadium Chomium Chomium Chomium Chomium Chomium Cotolum Cotolum Cotolum Selenium Selenium Selenium Selenium Cyanide 2,4,6-Trinitrotoluene Cyanide 2,4-Dinitrotoluene Cyanide Cyanide Cyanide Cyalonite / Hexahydro-1,3,5-trinitrotoluene Cyanide Cyclottramethylenettanitramine Trinitroolly Nitramine / * Cyclottramethylenettanitramine Tetryl / N-Methyl-N,2,4,6- tetramitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Cobalt Copper Vanadium Zinc Calcium Selenium Cyanide 2,4,6-Trinitrotoluene Zinc Cyclotetramethylenetetranitra Trinitro-1,3,5-triazine * Cyclotetramethylenetetranitra Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine Nitroglycerine / 1,2,3-Propan trinitrate	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Vanadium Zinc Calcium Selenium Zinc Calcium Zinc Calcium Zinc Calcium Selenium Cyanide Z,4,6-Trinitrotoluene Z,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1 trinitro-1,3,5-triazine * Cyclotetramethylenetetranitra Tetranitro-1,3,5-triazine * Cyclotetramethylenetetranitra Irinitrosiiline / Hexahydro-1 trinitro-1,3,5-triazine * Cyclotetramethylenetetranitra Irinitrate Z,6-Dinitrotoluene Z,6-Dinitrotoluene Z,6-Dinitrotoluene	Silver Aluminum Iron Lead Magnesium Manganese Nolybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Chomium Copper Vanadium Zinc Calcium Selenium Selenium Cyanide Z,4,6 Trinitrotoluene Z,4-Dinitrotoluene Z,6-Dinitrotoluene Z,6-Dinitrotoluene Z,6-Dinitrotoluene Z,6-Dinitrotoluene Z,6-Dinitrotoluene Z,6-Dinitrotoluene	Silver Aluminum Iron Lead Magnesium Morbdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Cadmium Chromium	Silver Aluminum Iron Lead Magnesium Manganese Nolybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Cadmium Chromium Cobalt Copper Vanadium Selenium Elinitrotoluene Z,4,6-Trinitrotoluene Cyanide Z,4-Dinitrotoluene RX/ Cyclonite / Hexahydro-1 trinitro-1,3,5-triazine * Cyclotetramethylenetetranitral Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine Nitroglycerine / 1,2,3-Propan trinitrate Z,6-Dinitrotoluene RX/ Cyclotetramethylenetetranitral Fernyl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine Z,6-Dinitrotoluene PEIN / Pentaerythritol tetran Z,2-Bis[(nitrooxy)me*	Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Cadmium Cadmium Choper Vanadium Selenium Cyanide 2,4,6-Trinitrotoluene Z,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1 trinitro-1,3,5-triazine * Cyclotetramethylenetetranitral Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine Nitroglycerine / 1,2,3-Propan trinitrate Z,6-Dinitrotoluene ETN / Pentaerythritol tetran Z,2-Bis[(nitroox))me* Z-Nitrotoluene S-Nitrotoluene
_	99-08-1 99-35-4 99-65-0	99-99-0 7440-22-4		7429-90-5	7429-90-5 7439-89-6 7439-92-1	7429-90-5 7439-89-6 7439-92-1 7439-95-4	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-98-7	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-98-7	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-98-7 7440-02-0	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-98-7 7440-02-0 7440-23-5	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-98-7 7440-09-7 7440-23-5	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-98-7 7440-03-7 7440-03-7 7440-23-5 7440-23-5	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-98-7 7440-02-0 7440-23-5 7440-38-0	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-98-7 7440-02-0 7440-02-0 7440-23-5 7440-38-2 7440-38-2	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-23-5 7440-38-0 7440-38-2 7440-39-3	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-09-7 7440-38-0 7440-38-0 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7440-66-6 7440-66-6	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-03-5 7440-38-0 7440-43-9 7440-43-9 7440-43-9 7440-62-2 7440-62-2 7440-66-6 7440-73-3 7440-6-6 7410-70-2 7782-49-2	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-03-5 7440-38-2 7440-47-3 7440-47-3 7440-47-3 7440-62-2 7440-62-2 7440-62-2 7410-66-6 7410-60-6	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-96-5 7440-02-0 7440-03-0 7440-38-2 7440-38-2 7440-41-7 7440-43-9 7440-43-9 7440-43-9 7440-62-2 7440-62-2 7782-99-2 7782-99-2 57-12-5 118-96-7	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-98-7 7440-02-0 7440-03-0 7440-38-2 7440-38-2 7440-41-7 7440-43-9 7440-43-9 7440-43-9 7440-66-6 7440-66-6 7740-66-6 7740-66-6 7782-49-2 57-12-5 118-96-7	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-23-0 7440-38-0 7440-38-0 7440-41-7 7440-48-4 7440-66-6 7440-66-6 7440-66-6 7440-66-7 7782-49-2 7782-49-2 121-14-2 121-14-2	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-03-7 7440-36-0 7440-38-2 7440-38-3 7440-41-7 7440-41-7 7440-62-2 7440-70-2	7429-90-5 7439-92-1 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-03-7 7440-36-0 7440-36-0 7440-41-7 7440-50-8 7440-62-2	7429-90-5 7439-90-7 7439-92-1 7439-95-4 7439-95-4 7439-96-5 7440-02-0 7440-03-7 7440-36-0 7440-38-2 7440-43-9 7440-43-9 7440-47-3 7440-62-2 7440-66-6 7440-66-6 7440-66-6 7440-70-2 7782-49-2 7782-49-2 57-12-5 121-14-2 121-14-2 121-14-2	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-03-0 7440-38-2 7440-43-9 7440-43-9 7440-43-9 7440-62-2 7440-62-2 7440-66-6 7440-60-6 7440-6	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-03-0 7440-35-0 7440-47-3 7440-47-3 7440-47-3 7440-47-3 7440-47-3 7440-66-6 7440-6	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7439-96-5 7440-02-0 7440-03-0 7440-38-2 7440-38-2 7440-47-3 7440-47-3 7440-47-3 7440-47-3 7440-62-2 7782-98-7 7440-47-3 7440-47-3 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 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7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-70-2 7440-62-2 7782-11-5 88-72-2	7429-90-5 7439-98-6 7439-92-1 7439-95-4 7439-95-4 7439-96-5 7440-02-0 7440-36-0 7440-36-0 7440-36-0 7440-41-7 7440-50-8 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-62-2 7440-70-2 7440-7
Meth/ Matrix	LW32/	7202		7814/	/5LSf	/arst	/4LSf	/4Lsr	/ / 1816	/4LSC	/4LSC	1814	1814	14180	1814	1814	1814	14180	1814	1814	14180	14181	14180	14180	JS14/ KY04/	JS14/ KY04/ LW32/	JS14/ KY04/ LW32/	JS14/ KY04/ LW32/	JS14/ KY04/ LW32/	JS14/ KY04/ LW32/	JS14/ LW32/	JS14/ KY04/ LW32/	JS14/ KY04/ LW32/	JS14/ KY04/ LW32/	JS14/ KY04/ LW32/	JS14/ KY04/ LW32/	JS14/ KY04/ LW32/	JS14/ LW32/	JS14/ LW32/	JS14/ LM32/
Lab Lab Anly. No.	51446	51454																																						
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Field Sample No.	91B162C	91B163C																																						

* - Analyte Description has been truncated. See Data Dictionary

24-001-94

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

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U1-JAN-91 24-0CT-94		Analyte Description	1 3-Dinitrohanzana	4-Nitrotoluene	Mercury	Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Соррег	Vanadium	Zinc	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,5,5-Irinitrobenzene	l, 5-V ini tropenzene
Date Kange: UI-JAN-91		CAS No.	0-59-66	0-66-66	2439-97-6	7440-22-4	7429-90-5	7439-89-6	7439-92-1	7439-95-4	2-96-657	7439-98-7	7440-02-0	2440-09-7	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	2440-43-9	2440-47-3	7440-48-4	7440-50-8	7440-62-2	2440-66-6	7440-70-2	7782-49-2	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-55-4	n-co-kk
sampring	Meth/	Matrix	LW32/		JB 06/	JC02/	JS14/																						KY04/	LW32/																
	Lab	Lab Anly. No.			PC 51462																																									
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	Field	Sample No.	9181630		91B164C																																									

^{* -} Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ---- 91816

24-001-94 Sampling Date Range: 01-JAN-91

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Flag Codes	; ; ;															-																	-											
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Meas. Bool.				_									ב	<u>_</u>		R			ב							_	; <u>-</u>	: <u>-</u>	j	_	: 5	i	-1	[]		ב		רו	ב		5	5!	: ב	5
Analyte Description	4-Nitrotoluene	Total petroleum hydrocarbons	Mercury	Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Cyanide	2 & 6-Trinitrotoliene / alpha-	Trinitrotollene	2.4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1.3.5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	Z-Nitrotoluene	3-Nitrotoluene	1,5,5-Irinitrobenzene	i,3-Dinitrobenzene
CAS No.	0-66-66		2439-97-6	7440-22-4	7429-90-5	2439-89-6	7439-92-1	7439-95-4	7439-96-5	7-89-98-7	7440-02-0	2440-09-7	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	2440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	9-99-077	2-02-0752	2-67-68-2	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-55-4	0-60-66
Meth/ Matrix	LW32/	00	1806/	JC05/	JS14/																						KVO47	1.032/	1															
Lab Anly. No.		PC 51470																																										
Sample Date	16-FEB-92	16-FEB-92																																										
Depth	18.0	24.0																																										
Field Sample No.	91B164C	91B165C																																										

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

Site Site Type ID

91B17

24-0C1-94	
01-JAN-91	
Range:	
Date	
lng	
Sampling	

Data Quals																																															
Flag Codes	;																		۲	-																											
Unit Meas.		ววก	ออก	990	ngg	ngg	1100	100		ออก	วาก	990	ออก	กิดด	กดิด	990	ngg	บบา	1100	200	100	991	100	2 5	200	990	ngg	990	990	ngg	990	!	บบท	990	į	ngg	ngg		ngg	?	ngg	DOC		nec	กดด	ngg	990
Conc.	:	.245	1.22	1.22	8.70 E -2	1.01	6300	70007	20024	7000	6/2	05,6	7 1	: :	142	20	12,5	82.9	12.7	5 27	789	267	51.6	17 /	7.7	6.51	63.8	6.04	428	12.4	.25	!	.251	. 5		667	1.27		2.5	2	5.	2.5		.505	.251	.25	. 546
Meas. Bool.		Ľ		ב		-1						!	<u>.</u>	<u>.</u>	ב	ב	۲,		9	<u>}</u>		=	;							LI	L,		_	; =		LT	LT		Ľ	i		LI		11	רו	רַ	ב
Analyte Description		4-Nitrotoluene	Cyanide	Cyanide	Mercury	Silver	Aluminum	Iron	- Card	Z222001:3	Tagaries Learning	Manganese	Mot your miles	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt		Version in	Vanadium	Z1nc	Calcium	Selenium	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3.5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene
CAS No.		0-66-66	5/-12-5	5/-12-5	2439-97-6	7440-22-4	7429-90-5	7439-89-6	7439-92-1	7/30-02-/	7.20-02/2	1437-70-J	7-94-45+7	0-20-07/2	7-KD-D557	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7-87-0772	2770-20-8	27.07.72	7-70-055/	9-99-055	2-02-0552	7782-49-2	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66
Meth/ Matrix				KY04/			JS14/																								LW32/																
	:	PC 51470			PC 51403																																										
Sample Date	14-550-00	10-FEB-92	10-FEB-92	10-FEB-92	16-FEB-92																																										
Depth	2,70	7.0	0.0	0.0	D.C																																										•
Field Sample No.	0101456	71810JC	307 IB IOC	2091817	20818171																																										

^{* -} Analyte Description has been truncated. See Data Dictionary

Site ID ----91817

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-0CI-94

Data Quals	; ; ;																																															
Flag Codes	1 1 1 1															۲	-																															
Unit Meas.	090	990	990	2011	951	990	อเก	วอก	99N	9911	991	9911	991	200	200	500	מפס	99n	ออก	<u>0</u> 900	990	วอก	990	251	מפס	กุกก	99N	990	990	990		ยยา	991	3	2011	991	5	yul		บูปแ	2011		990	9911	550	200	กราก	กาก
Conc.	.245	134	1.01	3100	20,70	1,400	7.7	416	280	7	11.6	220	jç	12 5	2.7.0	12.7	12.7	55.4	1.14	.427	6,63	10.7	9.52		2 2	25.9	95/	12.4	1.22	.25		251		•	067	1 27	17:1	2.5	ì	2	2,5	` !	.505	251		3.	647.	C#7•
Meas. Bool.										_	i		_		<u>.</u>	<u>.</u>	Š			L								LI	LI	ב		_	. <u>-</u>	3	-	; <u>-</u>	3	_	i	_	<u>-</u>		LI	=	: <u>-</u>	֖֡֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֡֝֡֡֡֡֝֓֡֡֡֡֡֝֡֡֡֡֡֡	ב ב	_
Analyte Description	4-Nitrotoluene	MPICILITY	Silver	Aliminia		Loui	Lead	Magnesium	Manganese	Molybdenim	Nickel	Dotassijm	Sodium	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Antimoni	And imply	Arsenic	Barıum	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Variability	7 100	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2 4-Dinitrotoluene	PDX / Cyclonite / Hexabydro-1 3 5-	trinitro-1 3 5-triazine *	Cyclotetramethylenetetranitramine	Totrvi / N-Mothvi-N 2 & K-	tetrapitroapiline / Nitramine / *	Nitroglycerine / 1 2 3-Propanetriol	trinitrate	2 6-Dinitrotoluene	DEIN / Dentaervibrito tetranitrate /		2-Nitrotoluene	3-Nitrotoluene	1 2 S-Trinitrobenzene	1, 3, 3-11 1111 tl Obelizelle	' Nitestalines	4-NILLOLOLUENE
CAS No.	0-66-66	9-20-6272	7440-22-4	270-00-2	7.20-80-67	0-40-451	1439-92-1	7439-95-4	7439-96-5	7-80-6577	0-20-0772	2-60-0772	2770-23-5	7,40-28-0	0-07-0447	0.00.077	7-00-0447	7440-59-5	7440-41-7	2440-43-9	7440-47-3	7440-48-4	7440-50-8	2,60-62-2	7-70-044/	0-00-0+1	7-07-044/	7782-49-2	57-12-5	118-96-7		121-14-2	121-82-4	-	2601-61-0	479-45-R		55-63-0))	606-20-2	78-11-5	· ·	88-72-2	99-08-1	7-52-00	4-65-66	0-69-66	0-66-66
Meth/ Matrix	LW32/	1806/	JC05/	17151	1																								KY04/	LW32/																		
-	PC 51403																																															
Sample Date	16-FEB-92	16-FFR-92																																														
Depth	5.0	10.0																																														
Field Sample No.	S091B171	S001R172	1																																													

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

	Data	Quals																																															
	Flag	Codes	:	}															F	-																													
	Unit	Meas.	!	ออก	990	nec	99N	990	9	3	ָ פַּרָ	990	990	990	ngg	991	991	991	99	991	99	8 2	5 5	200	กาก	990	990	990	neg	991	99	9 2	3	991	8 5	3	บบก	990	,	990	! !	neg	990		990	990	990	990	ngg
		Conc.			8.70 E -2	1.01	14000	29000	23.3	804		440	7	38.5	776	75.6	12.5	200	12.7	17.6	000	267	17.5	0.00	*.02	22	9.44	119	896	12.4	1 22		}	251			667	1.27		2.5		۲,	2.5		.505	.251	52:	.249	.245
	Meas.	Bool.		2	<u>ב</u>	_							Ļ				=	; <u>-</u>	Ş	!		<u>-</u>	;							[]	-	; <u>-</u>	;	1-	: =	i	11	-1		-1		11	-1		11	ב	רו	17	Lī
		Analyte Description		lotat petroleum nydrocarbons	Mercury	Silvei	Aluminum	Iron	Lead	Magnesium	N COURT OF THE PAR	naligaliese	Molybdenum	Nickel	Potassium	Sodium	Thattium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt			Vanadium	Zinc	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1.3.5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	oxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene
)		CAS NO.		, 10	0-16-6641	5-77-055	7429-90-5	7439-89-6	7439-92-1	7439-95-4	2.40-05.7	7.00 02/2	1-94-46+1	7440-02-0	2440-09-2	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	2440-43-9	7440-47-3	7-87-0752	7440-50-8		7-79-044/	9-99-055/	7440-70-2	7782-49-2	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	99-65-0	0-66-66
	Meth/	Matrix	2	, ,	/ongr	7705	7514/																								KY04/	LW32/																	
	Lab	Lab Anly. No.																																															
	Sample	Date	16-FFR-92	7, 21, 21																																													
	4	nebru	15.0	?																																													
	Field Sample Mo	Sample No.	S091B173																																														
	Site	e	71817																																														
	Site																																																

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Depth 5.0

Field Sample No.

Site ID ----91818

Site Type BORE

Data Quals		
Flag Codes	-	
unit Meas. UGG UGG UGG UGG		990 990 990 990 990 990 990 990
Conc. 10 8.70 E -2 1.01 5450 15000	310 4 13 235 50 12.5 12.7 427 8.13 11.7 16.2 51 12.4 1.22	
Meas. Bool. ND LT LT	רון אוון די די	55 55 5 55 55555
Analyte Description Total petroleum hydrocarbons Mercury Silver Aluminum Iron	Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Cadmium Cobalt Copper Vanadium Zinc Calcium Selenium Cyanide Cyanide 2,4,6-Trinitrotoluene / alpha-	Infinitrocoluene 2,4-Dinitrocoluene RDX / Cyclonite / Hexahydro-1,3,5- trinitro-1,3,5-triazine * Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate 2,6-Dinitrotoluene PE'N / Pentaerythritol tetranitrate / 2,2-Bis[(nitrooxy)me* 2-Nitrotoluene 3-Nitrotoluene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 4-Nitrotoluene
CAS No. 7439-97-6 7440-22-4 7429-90-5 7439-89-6	7439-96-5 7439-98-7 7440-02-0 7440-23-5 7440-28-0 7440-38-2 7440-38-2 7440-41-7 7440-43-9 7440-48-4 7440-62-2 7440-66-6 7440-66-6 7440-66-6	121-14-2 121-82-4 2691-41-0 479-45-8 55-63-0 606-20-2 78-11-5 88-72-2 99-08-1 99-35-4 99-55-0
Meth/ Matrix C 00 / JB06/ 7 JC02/ 7 JS14/ 7	KY04/	
Lab Lab Anly. No. 		
Sample Date 18-FEB-92		

^{* -} Analyte Description has been truncated. See Data Dictionary

Site ID

Site Type

91818 91819

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-OCI-

24-001-94

Data Quals	1 1																																															
Flag Codes		٥	-															j	•																													
Unit Meas.		000	nge	ngg	9911	9911	320	000	nee	ngg	nge	990	990	9911	990	9911	991	9911	990	990	990	991	351	30	חמח	กถุก	ngg	nge	nge	ngg	ngg		900	nec		000	990		9911		990	9911	3	9911	991	550	300	2000
Conc.	1	1.22	10	.521	1.01	12000	22000	7,000	8.10	612	234	7	23.3	2.40	141	12.5	82.9	12.7	275	.776	6.51	21.2	20.	17.6	40	۲۰۰۵	336	502	12.4	1.22	.25		.251	.51		667.	1.27	I	2.5	i I	5;	2.5		505	25.	į K	67.	
Meas. Bool.	1	-1	Š		17							17				_	; <u> </u>	ND	!										-1	ב	Ľ		[]	-		-1			17		-1	; <u> </u>		_	: <u>-</u>	: <u>-</u>	<u>-</u>	_
Analyte Description	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cyanide	Total petroleum hydrocarbons	Mercury	Silver	Aluminum	Iron	- To	read	Magnesıum	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Conner	Vapadim			Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /		2-Nitrotoluene	3-Nitrotoluene	1 3 5-Trinitrohenzene	1.3-Dinitrobenzene	
CAS No.	, , , , , , , , , , , , , , , , , , , ,	57-12-5		2439-97-6	7440-22-4	7429-90-5	9-68-6572	7/30-02-1	1-24-4547	4-24-42-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	2440-43-9	2440-42-3	7440-48-4	8-05-0772	2-29-0772	7 77 0//2	0-00-0447	7-07-0447	7782-49-2	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-32-4	99-65-0	
Meth/ Matrix	:	KY04/	\ 8	JB06/	JC05/	JS14/																								KY04/	LW32/																	
Lab Lab Anly. No.		PC 533410	PC 54410																																													
Sample Date	:	18-FEB-92	19-FEB-92																																													
Depth	:	2.0	2.0																																													
Field Sample No.		9181810	S091B191																																													

^{* -} Analyte Description has been truncated. See Data Dictionary

Sample Date 19-FEB-92

Depth 5.0 10.0

Field Sample No. SO91B191 SO91B192

Site Site Type ID BORE 91819

Data Quals	1 1 1 2																																								
Flag Codes	# 1 1 3												-	•																											
Unit Meas.	990	วูก กใช้	กดด	990	200	990	วูรูก	990	990	990	ออก	990	າງດີ	990	990	990	990	990	990	990	990	990	วอก	ออก	ngg		ngg	วยก		ดริเ	990		บอก		9 9 0	990		990	990	990	nee
Conc.	.245	22.8	1.01	2030	100	208	83	7	16.2	527	50	2.5	12.7	14.2	549	.427	4.21	5.89	12.8	7.71	48.6	109	12.4	1.22	.25	1	.251	.51		667.	1.27		2.5	ı	٠ :	2.5		.505	152.	52:	.249
٥	, , (ν.		N	ν τ	- (\	ıω	7	-	U (1)	u , ,	- •			•	•	7	•	•	,~	7	•	•	•	·						•										
Meas. Bool.	17		LT		-	5		ב			<u>-</u> :	_ <u>-</u> -	- 2)		<u></u>						5	_	5	ב		_	_		_			L		5	L1	1	ב'	5	_ :	[1
Analyte Description	4-Nitrotoluene	lotat petroteum nydrocarbons Mercury	Silver	Aluminum	Iron	Magnesitim	Manganese	Molybdenum	Nickel	Potassium	Sodium	hating	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Z inc	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	ir initirototuene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,2-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate 2 (2: :: :	Z,o-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	Z,Z-BIS[(IIII)00XY)me~	Z-Nitrotoluene	3-Nitrotoluene	1,5,2-Trinitrobenzene	1,3-Dinitrobenzene
CAS No.	0-66-66	7439-97-6	7440-22-4	7,20-90-5	7/30-02-1	7-50-0572	7439-96-5	7439-98-7	7440-05-0	7440-09-7	7440-23-5	0-92-044/	7440-38-2	7440-39-3	7440-41-7	2440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-5	2440-99-9	7440-70-2	7782-49-2	57-12-5	118-96-7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7-41-171	121-82-4		2691-41-0	479-45-8		55-63-0	66,00	7-07-000	78-11-5	6	88-72-2	1-80-66	99-55-4	0-59-66
Meth/ Matrix	LW32/	7806/	JC02/	7814/																				KY04/	LW32/																
Lab Anly. No.	PC 54410																																								

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ---- 80RE 91B19

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO 24-001-

Data Quals	5 1 4 1																																													
Flag Codes	1	!	-							ဆ							-	-																												
Unit Meas.		990 1	990	9911	200	200	חפום	99N	9 9 0	99N	990	990	990	9911	9911	9911	9911	991	900	990	900	กาก	990	nee	nee	nec	nee	ngg	99N	990		000	990		990	990	1	000		990	ngg		บอด	ngg	ngg	ngg
Conc.	376	10	8.70 E -2	ı	17.10	7,00	1600	10	138	2200	7	32.4	142	20	12.5	82.9	12.7	9 67	. K	707	70.	(, , ,	45.0	77.1	2	55.6	109	12.4	1.22	.25		.251	.51		667.	1.27		2.5		₹.	2.5		.505	.251	.25	.249
Meas. Bool.	<u> </u>	. S	1 -	: <u>-</u>	;			_	ב		=		רז		- 1	-	S	•	_	; <u>-</u>	;			1	_			ב		ב		ב	ר		L1	LI		L1		ב	ר		ב	ר	ר	ב
Analyte Description	4-Nitrotollene	Total Detroleum hydrocarbons	Mercury	Silver	Aluminum	loo l		. רבמח	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobal +			Vanadium	71110	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene
CAS No.	0-66-66		9-26-6572	7440-22-4	7429-90-5	7-68-6272	7/30-02-1	1-24-454	7459-95-4	7459-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	2-27-0772	7-87-0772	7.40-50-8	0-07-0447	7-70-044/	7440-00-0	7-0/-055/	7.82-49-2	2/-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66
Meth/ Matrix	LW32/	00	/908r	JC02/	JS14/	•																							KYU4/	LW32/																
Lab Anly. No.		PC 54445																																												
Sample Date	19-FEB-92	19-FEB-92																																												
Depth	_	12.0																																												
Field Sample No.	S091B192	S091B193																																												

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

12.0 20.0 20.0

Depth

24-0CT-94

Field Sample No. S091B193 91B201C S91B201C

91819 91820

Site Type

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Analyte Description	/-Witrotolumpo	Conido	Borgury	Silver	SILVEI Aliminia	A Culli nulli	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thattium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol
CAS NO.	0-00-00	57-12-5	7/30-07-6	7-66-0772	\$-77-05h/	C-04-6741	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-077	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	2440-66-6	7440-70-2	7782-49-2	100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2
Meth/ Matrix	11/22/	LW3E/	1804/) cost	1005/	14100																						LM30/																	
⋖	DC 5///5	PC 57258	PC 57258																																										
Sample Date	10-658-02	21-FEB-72	21-reb-72 21-cep-02	76-821-17																																									

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

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10-34N-71		Analyte Description	2 /-0:5:4:5:4:5:4:5	Bonno Edoff phonometheono	Dimothyl shthalata	Diborofuso		penzorgini pery tene	Indeno[1,2,3-C,D]pyrene	Benzo[b]fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzofk1fluoranthene	Acenaphthylene	Chevsone	חבייי ניו שיייי ניו שיייי ניו שיייי ניו שיייי	benzolaj pyrene	Z,4-Ulnitrophenol	Ulbenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo[a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	¥Ш-S	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalato	District plumatate	Dhononthrono	Butvibonzyl abtbalato	N-Witnesodishess lesise	Fluorono / Out of the control	novechi enskutenis	hevacility obuilding / hexacilloro-1,3-	butaqiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	
ing pare hange: OI-JAN-YI		TX CAS NO.	71-171 //		131-11-3	137-6-0	101-27.2	7-67-161	195-59-5	202-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	20-25-0	C-97-1C	c-0/-cc		1-76-566	7	1-()-1+0	26-55-3	29-20-2		606-20-2	621-64-7	65-85-0	67-72-1	7-47-47	78-59-1	83-32-9	6-99-78	2 55 - 58	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3	3	3-70-28	6-08-70	2-90-88	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	
Suradius		Lab Ality. No. Matrix	57258																																															
	Sample Depth Date		20.0 21-FEB-92																																												*			
	Field Sample No.		S91B201C																																															

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-0CT-

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Data Quals	1 1 †																																			
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Unit Meas.	090 000	990 000	nec	990	990	990 000	990	990	990	991		ngg		990	3	991	200	990		ngg	991	1	กดด		กดิต	nec	990	nee	990	กดด	990	990	990	nge	000	ספס
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Analyte Description	3,3'-Dichlorobenzidine o-Cresol / 2-Cresol / 2-Methylphenol 1,2-Dichlorobenzene	2-Chlorophenol 2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether Unknown compound 533	Unknown compound 537	Unknown compound 581	Unknown compound 629	EINYIDENZENE Styrene / Ethenylhanzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	1,2-Dichloroethane	Technique (Sobbaty) Netolic /	Isopropyracerone / 4-mernyr-2-pen- Tolinope	chlosobonson / Monochlosobonson	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	carbon disultide
CAS No.	91-94-1 95-48-7 95-50-1	95-57-8 95-95-4	98-95-3	2-60-66					, , , ,	100-41-4	74 001	10061-01-5		107-06-2	-01-001	108-88-2	108-00-3	124-48-1		127-18-4	156-50-2	1	156-60-5		56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	0-61-67
Meth/ Matrix	LM30/								, 22,	LM35/																										
Lab Lab Anly. No.	PC 57258																																			
Sample Date	21-FEB-92																																			
Depth	20.0																																			
Field Sample No.	S91B201C																																			
Site ID	91820																																			
Site Type																																				

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

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Unit Meas.		າງດີ	990	990		000	UGG	ngg	990	990		990		000	9 9 0	9 9 0		UGG	990		990	000		UGG		nge	990		nge	9911	9911	9911	991	551	991	90	997		990	990		990	990
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Analyte Description	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	richlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*			Xylenes, total combined	trans-1,3-Dichloropropene	2,4,6-Trinitrotoluene / alpha-	irinitrotoluene	2,4-Dinitrotoluene	KDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	letry! / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	Z-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	1,2-Dichloroethane	Methyl Isobutyl ketone /	Isoprupytacetone / 4-Metnyl-Z-pen*	Chlorobenzene / Monochlonehonnen	מונסן מהפוזעפוזפ / עוסוומרוונסן מהפעלפוופ
CAS No.	75-25-2	75-27-4	75-34-3	75-55-4	75-40-7	70-07-4	78-87-5	78-95-3	79-00-5	79-01-6	1	79-54-5			, ,	7-96-911	474 47 3	121-14-2	4-79-171	0 1/ 10/6	0-14-1697	417-43-8		0-59-66		2.02-909	6-11-9/	1	2-21-88	99-08-1	99-35-4	99-65-0	0-66-66	100-41-4	100-42-5		10061-01-5	2,07	107-00-2	1-01-901	108-88-2	108-90-7	124-48-1
Meth/ Matrix	LM33/														, 6231	/7CM7																		LM55/									
Lab Anly. No.	57258																																										
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Sample Date	21-FEB-92																																21- 550	41-reb-y2									
Depth	20.0																																22	0.0									
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Site ID	91B 20																																91821										
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	Site Field Sample Lab Meth/ ID Sample No. Bote Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes	Site Field Sample Lab Meth/ Meth/ Lab Meth/ Meth/ Meas. Unit Flag ID Sample No. Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes 91B20 S91B201C 20.0 21-FEB-92 PC 57258 LM33/ 75-25-2 Bromoform IT FC 7 III III FC 7 III Field Sample Lab Meth/ No. Analyte Description Meas. Conc. Meas. Codes 10 Sample No. Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes 10 Conc. Conc. Meas. Codes Codes Conc. Meas. Codes 10 Conc. Conc. Conc. Meas. Codes Codes Codes Conc. Meas. Codes Codes Conc. Conc	Site Field Sample Lab Meth/ Analyte Description Meas. Unit Flag ID Sample No. Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes	Site Field Sample Lab Meth/ ID Sample No. Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes	Site Field Sample Lab Meth/ ID Sample No. Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Somple No. Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Solizor Sylb201C 20.0 21-FEB-92 PC 57258 LM33/ 75-25-2 Bromofichloromethane The sample No. Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Meas. Codes The Sample No. Conc. Meas. Codes The Solizor Conc. Meas. Cod	Site Field Sample Lab Meth/ Lab Meth/ Lab Meth/ Lab Meth/ Lab Meth/ Lab Meth/ Lab Meth/ Lab Meth/ Lab Meth/ Lab Meth/ Lab Meth/ Meth/ Lab Meth/ Meth	Site Field Sample Lab Meth/ ID Sample No. Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Sample No. Depth Date Lab Anly. No. Matrix CAS No. Analyte Description SylB201 C 20.0 21-FEB-92 PC 57258 LM33/ 75-25-2 Bromoform 75-27-4 Bromodichloromethane 75-37-3 1,1-Dichloroethylene / 1,1- LT 5 E -3 UGG 75-35-4 1,1-Dichloroethylene / 1,1- LT 6 E -2 UGG 75-69-4 Trichlorofluoromethane 75-69-4 Trichlorofluoromethane 76-87-5 1,2-Dichloropane 17 5 E -3 UGG 78-87-5 1,2-Dichloropane 18	Site Field Sample Lab Anly. No. Matrix CAS No. Analyte Description Meas. Unit Flag House Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes	Site Field Sample Lab Meth/ Analyte Description Meas. Conc. Unit Flag 1D Sample No. Depth Date Lab Anly. No. Analyte Description Conc. Meas. Codes	Site Field Sample Lab Meth/ Analyte Description Heas. Unit Flag 1D Sample No. Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Meas. Codes. 91820 S918201C 20.0 21-FEB-92 PC 57258 LM33/Think Composition LT 5 E -3 UGG 75-25-4 Bromodichloroethylene LT 5 E -3 UGG 10G 75-34-3 1/1-Dichloroethylene LT 5 E -3 UGG R 75-35-4 1/1-Dichloroethylene LT 5 E -3 UGG R 75-35-4 1/1-Dichloroethylene LT 5 E -3 UGG R 75-35-4 1/1-Dichloroethylene LT 5 E -3 UGG R 78-87-5 1/2-Dichloroethane LT 5 E -3 UGG R 79-00-5 1/1/2-Trichloroethane LT 5 E -3 UGG R 79-01-6 1/1-Chloroethylene LT 5 E -3 UGG R	Site Field Sample Lab Meth/	Site Field Sample Lab Meth/	Site Field Sample Lab Meth Meth	Site Field Sample Lab Meth	Sample	Single Field Sample Lab Meth/ Matrix GS No. Analyte Description Bool. Conc. Conc. Conc. Conc. Codes	Since Field Sample Lab Meth	Site Field Sample Lab Anly, No. Matrix Analyte Description Bool. Conc. Weas. Codes	Site Field Sample Lab Meth/ Malyte Description Heas. Golds G	Since Field Sample Lab Anly, No. Matrix CAS No. Analyte Description Bool. Conc. Hoas. 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^{* -} Analyte Description has been truncated. See Data Dictionary

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Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-0CI-94

	Meas. Unit Flag Data Hyte Description Bool. Conc. Meas. Codes Quals		promochloromethane / LT 5.7 E -2 UGG	orodibromomethane rrachloroethylene / LT 2.5 E -3 UGG	Perchloroethylen*	:-1,2-Dichloroethylene / cis-1,2- LT 2.5 E -3 UGG		ins-1,2-Dichloroethylene / trans- LT 2.5 E -3 UGG		LT 3.1 E -3	LT 1.8 E -2	LT 4.5 E -2	LT 2.6 E -3	LT 2.5 E -3	LT 2.5 E -3	LT 3.1 E	LT 3.5 E -2	LT 3.0 E -3	LT 3.8 E -3	LT 6.2 E -3		LT 2.5 E -3	LT 2.5 E -3	LT 2.5 E -3	LT 3.2 E		omethane ND 5.0 E	LT 2.5 E -3 UGG	/ 2-Butanone LT 5.1 E -3	LT 2,5 E -3	ichloroethene / LT 2.5 E -3			ketylene *	8.392	LI 7.5 E		LI 1.22	LT 8.70 E -2	LT 1.01	15000	23000	19.4	1020 1020	nganese 460 UGG
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^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

| Data
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| Analyte Description | Man Laboratory | Nicket | Potassium | Sodium | Thallium | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper
 | Vanadium | , i : | Calcium | Selenium | 4-Nitroaniline | 4-Nitrophenol | Benzyl alcohol | 2,4-Dimethylphenol | p-Cresol / 4-Cresol / 4-Methylphenol | 1,4-Dichlorobenzene

 | 4-Chloroaniline | Bis(2-chloroisopropyl) ether | Phenol / Carbolic acid / Phenic acid | / Phenylic acid / Phe*
 | Bis(2-chloroethyl) ether | Bis(2-chloroethoxy) methane | Bis(2-ethylhexyl) phthalate | Di-n-octyl phthalate | Hexachlorobenzene | Anthracene | 1,2,4-Trichlorobenzene
 | 2,4-Dichlorophenol | 2,4-Dinitrotoluene | Benzo[def]phenanthrene / Pyrene | Dimethyl phthalate | Dibenzofuran | Benzo[ghi]perylene | Indeno[1,2,3-C,D]pyrene
 | Benzo[b] fluoranthene / 3,4- | Elizar Luorantnene | ר נעסו מווינופוופ |
| CAS No. | 7/30-08-7 | 7440-02-0 | 2-60-0552 | 7440-23-5 | 7440-28-0 | 7440-36-0 | 7440-38-2 | 7440-39-3 | 7440-41-7 | 7440-43-9 | 7440-47-5 | 7-87-050 | 7440-20-8
 | 7-79-044/ | 0-00-044/ | 7-07-044/ | 7-64-78/ | 100-01-6 | 100-02-7 | 100-51-6 | 105-67-9 | 106-44-5 | 106-46-7

 | 106-47-8 | 108-60-1 | 108-95-2 |
 | 111-44-4 | 111-91-1 | 117-81-7 | 117-84-0 | 118-74-1 | 120-12-7 | 120-82-1
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* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

Site Site Type ID

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		218-01-9	Chrysene	11	.27	990		
		50-32-8	Benzofalpyrene	5	.24	990		
		51-28-5	2.4-Dinitrophenol	2	1.7	990	œ	
		53-70-3	Dibenz Sahlanthracene / 1.2:5.6-	<u>-</u>	.27	990		
) -	Dibenzanthracene	i	į			
		534-52-1	4.6-Dinitro-2-cresol / 2-Methyl-4.6-	LT	.84	990		
			dinitrophenol	i				
		541-73-1	1 3-Dichlorobenzene	<u></u>	58	990		
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			Cresol / 4-Chloro-3-m-	!	•	-		
		606-20-2	2,6-Dinitrotoluene	5	.2	990		
		621-64-7	N-Nitrosodi-n-propylamine	רו	-:	กดด		
		65-85-0	Benzoic acid	רי	.92	99N		
		67-72-1	Hexachloroethane	ב	.17	990		
		7-47-47	Hexachlorocyclopentadiene	LT	1.8	000		
		78-59-1	Isophorone	11	.32	990		
		83-32-9	Acenaphthene	11	.27	990		
		84-66-2	Diethyl phthalate	-1	.35	000		
		84-74-2	Di-n-butyl phthalate	ב	.51	950		
		85-01-8	Phenanthrene	רַ	.17	950		
		85-68-7	Butvibenzyl phthalate	<u>_</u>	~	990		
		86-30-6	N.Nitrosodiobenvlamine	; <u>-</u>	17	9911		
		2 22 28	ringson / Ott-fluores	; -	17	500		
		1-00-00	ridorene / yn-ridorene	: :	- 6	200		
		87-68-5	Hexachlorobutadiene / Hexachloro-1,5-	5	87.	066		
		1	butadiene	!	•	1		
		87-86-5	Pentachlorophenol		.48	990		
		88-06-2	2,4,6-Trichlorophenol		٨.	99N		
		88-74-4	2-Nitroaniline		.36	DOO		
		88-75-5	2-Nitrophenol		.26	ngg		
		91-20-3	Naphthalene / Tar camphor	ב	.17	990		
		91-57-6	2-Methylnaphthalene	ב	.17	990		
		91-58-7	2-Chloronaphthalene	Lĭ	.33	99n		
		91-94-1	3,3'-Dichlorobenzidine	Q.	99.	990	~	
		2-48-5	o-Cresol / 2-Cresol / 2-Methylphenol	LT	.17	nea		
		95-50-1	1.2-Dichlorobenzene	-	.32	990		
		95-57-8	2-Chlorophenol	ב	.17	990		
		95-95-4	2,4,5-Trichlorophenol	ב	.24	990		
		98-95-3	Nitrobenzene / Essence of mirbane /	רו	.19	990		
			Oil of mirbane					
		99-09-2	3-Nitroaniline	QN	1.7	990	~	
			4-Bromophenyl phenyl ether	LI	.17	nee		

^{* -} Analyte Description has been truncated. See Data Dictionary

24-001-94

Site Site Type ID BORE 91821

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-0CT-94

Data Quals		
Flag Codes S S S S S S S S S	ω w	
Unit Neas. UGG UGG UGG UGG UGG UGG	990 000 000 000 000 000 000 000	990 990 990 990
Conc	2.584 2.534 3.0 2.5 1 3.0 1.7 2 2.5 1 2.5 1 3 3.0 1 3	
Meas. Bool. LT	55 5 55 555 5 5 5 55555555	:555555
Analyte Description 4-Chlorophenyl phenyl ether Unknown compound 534 Unknown compound 534 Unknown compound 537 Unknown compound 581 Unknown compound 628 Unknown compound 629 Unknown compound 641	Unknown compound 667 Unknown compound 677 Ethylbenzene Styrene / Ethenylbenzene / Styrol / Styrolene / Cinnamene * cis-1,3-Dichloropropylene / cis-1,3- Dichloropropene 1,2-Dichloroethane Methyl isobutyl ketone / Isopropylacetone / 4-Methyl-2-pen* Toluene Chlorodibromomethane / Chlorodibromomethane / Chlorodibromomethane / Chloroethoroethylene / Tetrachloroethylene / Tetrachloroethylene / Tetrachloroethylene / Tetrachloroethoroethylene / Tetrachloroethoroethylene / Cis-1,2-Dichloroethylene / Tetrachloroethoroethylene / Tetrachloroethoroethylene / Cis-1,2-Dichloroethoroethylene / Tetrachloroethoroethoroethylene / Tetrachloroethoroethylene / Tetrachloroethoroethoroethylene / Tetrachloroetho	Vinyl chloride / Chloroethene Methylene chloride / Dichloromethane Carbon disulfide Bromoform Bromodichloromethane 1,1-Dichloroethane
CAS No.	100-41-4 100-42-5 100-42-5 10061-01-5 107-06-2 108-10-1 108-88-3 108-90-7 124-48-1 127-18-4 156-59-2 156-59-2 591-78-6 67-66-3 71-43-2 71-55-6 74-83-9 74-83-9 74-88-3	75-01-4 75-09-2 75-15-0 75-25-2 75-27-4
Meth/ Matrix 	LM33/	
Lab Anly. No		
Sample Date 24-FEB-92		
Depth 		
Field Sample No. S091B212		

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data																																										
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Unit Meas.	990	DOO	99N	550 100 100	99n		nee	9	กดด	990	2	990	DOC		OGG	ngg		ออก		000	990		9 9 0	990	กดด	ออก	99N	nec	990	990	OGG	OGG	990	OGG	990	990	990	991	951	991	991)
Conc.	3.2 E -2	ш	2.5 E -3	пп	נט נ		1.2 E -2	L	C- 3 C-)	ш	}	.251	.51		667	1.27		2.5		ر,	2.5	1	.505	.251	.25	.249	. 245	1.22	. 188	1.01	27 0 00	42000	34.6	1990	1500	7	32.5	028	201	10 F	82.9)
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Analyte Description	1,1-Dichloroethylene / 1,1-	Dichloroethene Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl Ketone / Z-Butanone	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*		Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Cyanide	Mercury	Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Sickel	Dotaciim	Codina	Tho. 1:47	Antimony	
CAS No.	75-35-4	72-69-4	78-87-5	78-93-5	79-01-6		79-34-5			118-04-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	57-12-5	2439-97-6	7440-22-4	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	0-20-0772	2,40.00-7	5-86-0772	0-80-07/2	0-92-044/)
Meth/ Matrix	LM33/									16271	1																	/ 66	/908r	JC02/	JS14/											
Lab Anly. No.	PC 57991																											PC 58017														
Sample h Date	2																											33.0 24-FEB-92														
Depth																												×														
_	2 10.0																																									
Field Sample No. De	s091B212 10.0																											S091B214 3														
_	s091B212																																									

^{* -} Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Site Site Type ID ----BORE 91B21

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data	
Flag	; - ~ ~ ~ ~
Unit	990 990 990 990 990 990 990 990 990 990
2400	2.7 68.1 2.89 26.9 26.9 26.9 27.3 17.0 17.1 17.1 17.1 17.1 17.1 17.1 17.1
Meas.	Q
Analyte Description	Arsenic Barvium Beryllium Cadmium Cobalt Copper Vanadium Chromium Chromium Chromium Cobalt Copper Vanadium Zinc Calcium Selenium 4-Nitrophenol Benzyl alcohol 2,4-Dimethylphenol 1,4-Dichlorobenzene 4-Chloroaniline Bis(2-chloroisopropyl) ether Phenol / Carbolic acid / Phenic acid Phenol / Carbolic acid / Phenic Sis(2-chloroisopropyl) ether Phenol / Carbolic acid / Phenic Bis(2-chlorobenzene 4-Chloroaniline Bis(2-chlorobenzene Archoroethoxy) methane Bis(2-chlorobenzene Arthracene 1,2,4-Trichlorobenzene 2,4-Dinitrotoluene Bis(2-chlorophenol 2,4-Dinitrotoluene Bis(2-chloroanthene Bis(2-chloroanthene Chrosone Chrosone Benzo[Biluoranthene Fluoranthene Benzo[Biluoranthene Chrysene Benzo[Archoroanthene Benzo[Biluoranthene Chrysene Benzo[Archoroanthene Chrysene Benzo[Archoroanthene Benzo[Archoroanthene Chrysene Benzo[Archoroanthene Chrysene Benzo[Archoroanthene Chrysene Benzo[Archoroanthene Chrysene Benzo[Archoroanthene Chrysene Benzo[Archoroanthene Chrysene
CAS No.	7440-38-2 7440-41-7 7440-43-9 7440-47-3 7440-47-3 7440-62-2 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-70-2 100-01-6 100-02-7 100-02-7 100-44-5 100-44-5 106-44-5 106-44-5 1120-83-2 1120-83-2 120-83-1 120-12-7 120-83-2 120-83-2 120-83-2 120-83-2 132-64-9 191-24-2 193-39-5 205-99-2 205-99-2 208-96-8 50-32-8 51-28-5
Meth/ Matrix	JS14/
Lab Lab Anly. No.	PC 58017
Sample Date	24-FEB-92
Depth	33.0
Field Sample No.	50918214

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-OCT-

24-001-94

Field Sample Sample Sample No. Depth Date So918214 33.0 24-FEB-92

Site ID ----

Site Type

Data Quals	1																																													
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Unit Meas.	1	nec		99n		000	ออก	990		ngc	990	วอก	990	DBO	DBU	990	99N	55N	990	990	990	990	DDO		990	990	ngg	990	บยด	990	บรูด	DBO	990	990	990	990	บอด		000	990	บอด	990	2011	201	ngo	
Conc.	1 1 1 1	.27		. 84		.58	.17	.23		.2	1,1	. 35	.17	1.8	.32	.27	.35	.51	.17	.2	.17	.17	. 28		87.	۲,	.36	.26	.17	.17	.33	99.	.17	.32	.17	.24	.19		1.7	.17	2.	14	. ~) (.559	
Meas. Bool.		=		<u></u>				ב		Ξ	11	: 5	17	ב	5	5	5	17	5	11	-	5	-		11	5	5	_	=	ב	-1	₽	ר	_	Lī		=		S	5	1	i				
Analyte Description		Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo[a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2.6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9H-Fluorene	Hexachlorobutadiene / Hexachloro-1.3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	Unknown compound 533	Unknown compared 537	Harbourn components	Unknown compound 629	•
CAS No.		53-70-3		534-52-1		541-73-1	56-55-3	29-50-7		606-20-2	621-64-7	65-85-0	67-72-1	7-27-22	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		89-09-5							
		LM30/																																												
Lab Lab Anly. No.		58017																																												
7	:	2																																												

* - Analyte Description has been truncated. See Data Dictionary

Site Site
Type ID
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BORE 91B21

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

	Data	Quals																																											
	Flag	Codes	:																															,											œ
	Unit	Meas.	UGG	991	990 0		990	990		99N		990	กลูย		990	990	990	990	990	990	ออก	nee	990	990	990	ngg	990	990	ออก	990	990	DDN	990	ngg	950	990	9911	9911	991	991	991	9 2	990	990	000
		Conc.	.25	25.1	.51		667	1.27		2.5		v: ˈ	2.5	i c	50C.	<u>.</u>	9.	647.	. 245	1.22	8.70 E -2	1.01	17000	20000	8.67	1120	2000	7	12.3	394	113	12.5	82.9	12.7	78.5	.543	.427	16.9	2.07	11 3	7 7	. o.	528	12.4	1.7
	Meas.	Bool.	1	=	: 5			-		5		ָרַ :	<u></u>	<u>.</u>	<u> </u>	<u>.</u>	<u>:</u>	.	5!	<u>.</u>	ָרַ :							5				Ľ	ב	QN QN			-							LT	S
Date Range: 01-JAN-91 24-OCT-94		Analyte Description	2,4,6-Trinitrotoluene / alpha-	2.4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PEIN / Pentaerythritol tetranitrate / 2 2-Ris [(nitroxxx)ma*	2-Withotalings	Z-withotoluene	1 3 E.Trinitachen	1,3,3-11 In trobenzene	', J-D IIII LI ODENZENE	4.Nitrotoluene	Lyaniue	Mercury	Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	4-Nitroaniline
		CAS No.	118-96-7	121-14-2	121-82-4	:	2691-41-0	4/9-45-8		55-63-0		200-5U-2	C_11_0/	88-72-2	00-08-1	7-32-00	0-65-00		99-99-0 57-12-5	7/20-02-7	7,70-33-7	4-77-044/	7429-90-5	7459-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	2440-36-0	7440-38-2	7440-39-3	7-11-075/	2440-43-9	2440-42-3	7440-48-4	7440-50-8	2-29-0552	9-99-077	7440-70-2	7782-49-2	100-01-6
Sampling	Meth/	Matrix	LW32/																8	1004	/0005	3505/	7814/																						LM30/
	Lab	Lab Anly. No.	PC 58017																58000																										
	Sample	Date 	24-FEB-92																24-FFR-92																										
	4	neptn	33.0																10.0																										
	Field	sampte No.	S091B214																S091B219																										

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Field Sample Sample Sample No. Depth Date S0918219 10.0 24-FEB-92

Site Site Type ID BORE 91B21

Data	Quals	:																																																	
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Unit	Meas.	1	DDU	9911	991	9 5	กกก	990	UGG	ngg	ยูยก	1	0	กดีต	ngg	000	990	5014	900	กระ	99N	99N	990	990	9911	991		990	00C	99N		1100	901		กอก	200	nec	990	990		990		nec	990	990	}	1166	99N	990	000	990
	Conc.	1 1 1 1	2.5	17	. *		<u>.</u>		3.3 E -2		-17			o.	-17	.19	.22	76	27.) ·	.29	.28	.31	26.	17	17	- 6	\$2.	.17	Б.		17	. 7	70	17:	/7:	.24	1.7	.27		-84		.58	.17	.23	ļ	2.	: [:	.92	.17	1.8
Meas.	Bool.		ר	_	i <u>-</u>	; <u>;</u>	<u>.</u> !	5	2	1	L		ŀ		_	-	[]	_	; ;	_			_	-	_	; <u>-</u>	. F	<u>.</u> .		_		_	; <u>-</u>	; <u>-</u>	<u>.</u> .	<u>.</u>	_	Q	5		LI		ב	בו	5	i	П	5	רי	17	ا
	Analyte Description		4-Nitrophenol	Benzyl alcohol	2 4-Dimethylphenol			1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*		Bis(z-chloroetnyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobene	Anthropous Constitution	Anthracene	1,2,4-Irichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Donato fabilitorial one	Benzolgnijperylene	Indeno[1,2,3-C,D]pyrene	Benzo[b]fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzofk1 finnranthene	Acanaphthylana	Accitability terre	cnrysene	Benzo (a) pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo [a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-		2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene
	CAS No.		100-02-7	100-51-6	105-67-9	10.501	100 44 0	100-40-	106-47-8	108-60-1	108-95-2		111-11-1	5-55-11	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	150-15-1	1-78-071	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	101-2/-2	7-67-161	195-59-5	205-99-2		206-44-0	207-08-9	208-06-8	200	4-10-017	20-25-8	51-28-5	53-70-3		534-52-1		541-73-1	56-55-3	59-50-7		606-20-2	621-64-7	65-85-0	67-72-1	7-27-12
Meth/	Matrix	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	LM30/																																																
Lab	Lab Anly. No.		PC 58009																																																

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Field Sample No. I

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

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Flag	Codes	: : :																			~								~			œ	- 62	ı c		2												
Unit	Meas.	2001	991	201	991	991	200	ກຸດ	กกก	990	nec		990	990	991	991	550	500	กกก	990	990	990	USG	991	200	อดเ	990		990	990	990	990	090	990	990	9911	990		9911	;	990	ยยเ		9911	99N	990		
2	couc.	22	25.	35	12	17		۶. د.	<u>:</u> :	.1.	.28		87.	٠.	25	2		- 1	-:	ત.	99.	.17	32	17	<u> </u>	47.	٧٢.		1.7	.17	~.	.236	.118	118	.472	ı	2.5 E -3		3.0 E -3	1		1.9 F -2	ı	ш	2.5 E -3	ш		
Meas.	1009	<u> </u>	; <u>-</u>	; <u>-</u>	; <u>-</u>	<u> </u>		<u> </u>	_ ;		Ľ		L1	ר	<u> </u>	i <u>-</u>	; :	- <u>+</u>	_ :	_	Q	רַ	_	: <u>-</u>	; <u>-</u>	<u>.</u> .	5		Q	LI	L1					1	: =		11	İ	L	11	i	17	5	LI		
Anslyte Description	Alacyte Description	Isophorone	Acenaphthene	Diethyl obthalate	Di-n-butyl phthalate	Phenanthrene	Rutvibenavi abthalate	N-Withosodinhonylamina		rluorene / ym-rluorene	Hexachlorobutadiene / Hexachloro-1,5-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Nanhthalana / Tar camphor	2-Mothylpophtholog	2-chlososophthalone	לייניסו סושלחורוושו בנוב	5,5'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2 4 5-Trichlocophood	Mittable Control Opinion	Nitropenzene / Essence of Mirbane /	011 of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	Unknown compound 533	Unknown compound 537	Unknown compound 581		Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	1,2-Dichloroethane	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	
OA SAO		78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6	25.22.30	7-13-1	67-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	01-58-7	- 20	71-94-1	95-48-7	95-50-1	95-57-8	7-50-50	2.20.00	C-C4-04		2-60-66							100-41-4	100-42-5		10061-01-5		107-06-2	108-10-1		108-88-3	108-90-7	124-48-1		127-18-4
Meth/	V	LM30/																																		LM33/												
Lab Lab Anlv. No.		PC 58009																																														
Sample Date		24-FEB-92																																														
Depth		10.0																																														
		_																																														

* - Analyte Description has been truncated. See Data Dictionary

Site ID ----

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Data Quals																																								
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Unit Meas.	nec	990	2	חחח	990	99N	990	99 N	990	3 2	997	nee	ngg	ngg	990	990	990	990	DGG		990	990	990	990	990		990		บอย	ยยก	UGG	ยยก		บอก	ngg		nec	990	ยยเ	2
Conc.	2.5 E -3	2.5 E -3	7	ц		ш	ш	2.6 E -3	ш.	ш	, щ	ш	ш	ш	ш	ш	ш		ш		ш	ш	5.1 E -3	ш	ш		1.2 E -2			ш	2.5 € -3	.25		.251	.51		664.	1.27	2 2) J
Meas. Bool.	ב	=	:	5	1	_		<u></u> :	5:	<u>.</u> :	: <u>-</u>	: -	<u>_</u>	-	ב	Ľ	L	רַ	5		웆	ב	_	ב	ב		_				LT	=		רַ	L1		=	5	-	<u>.</u>
Analyte Description	Tetrachloroethylene /	<pre>Tetrachloroethene / Perchloroethylen* cis-1,2-Dichloroethylene / cis-1,2-</pre>	Dichloroethene	1.2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	R.Conomethere	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Unknown compound 077	Xylenes, total combined	trans-1,3-Dichloropropene	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroanitine / Nitramine / * Nitroalverine / 1 2 3-Propapetriol	trinitrate
CAS No.	127-18-4	156-59-2	154-40-E	C-00-9C	56-23-5	591-78-6	67-64-1	67-66-3	7-65-1	0-66-17	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5					118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8	0-59-55	}
Meth/ Matrix	LM33/																															LW32/								
Lab Anly. No.	PC 58009																																							
Sample Date	2																																							
Depth	10.0																																							
Field Sample No.	80918219																																							

^{* -} Analyte Description has been truncated. See Data Dictionary

24-0C1-94

Site Site Type 1D 80RE 91821

91822

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

24-0CT-94	
01-JAN-91	
Range:	
ng Date	
Sampling	

Data Quals																																													
Flag Codes																							•											œ						Ω.	:				
Unit Meas.		ngg	ngg		UGG	000	nge	ווניני	901	100	951	990	1100	990	ยยก	990	990	DOO	990	ngg	9911	990	ยยา	990	990	990	99N	990	990	99N	ngg	ngg	ngg	UGG	990	990	000	neg	990	1991	991	991	7	990	ngg
Conc.	1 1 1 1 1	٠.	2.5		.505	.251	.25	249	572	1.01	12000	17000	20-4	667	225	7	7.5	228	85.4	12.5	82.9	12.7	17.5	.25	427	12.2	10.6	8.24	33	27.2	427	12.4	1.22	1.7	2.5	.17	.33	.18	.17	3.3 F -2		-17	:	1.6	.17
Meas. Bool.	1		-		<u></u>		-1	[]	: <u>-</u>	: =	i					_	<u>_</u>				[]	웆		[]	[]							-	_	ş			ב		[]	QN		1			5
Analyte Description		2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Silver	Aluminum	1ron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thattium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Cyanide	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane
CAS No.		606-20-2	78-11-5	;	88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	7440-22-4	7429-90-5	2439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2440-05-2	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	2440-43-9	2440-42-3	7440-48-4	2440-50-8	7440-62-2	9-99-0552	7440-70-2	7782-49-2	57-12-5	100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1
		LW32/								JC05/	JS14/																						KY04/	LM30/											
Lab Anly. No.		PC 58009								PC 57088																																			
) 24-FEB-92								17.0 21-FEB-92																																			
		10.0								17.0																																			
Field Sample No.	0,000	S091B219							;	9182210																																			

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-0CT-

Field Sample Sample Sample No. Depth Date 17.0 21-FEB-92

Site Site Type ID BORE 91822

Data Quals	1 1 2																																											
Flag Codes	1																			œ																								
Unit Meas.	1100	991	990	990	วูวูก	990	990	990	990	990	99N	990	990		990	990	990	บอด	990	ngg	990		990		000	990	990		990	990	990	99N	990	990	990	990	990	DDO	990	990	990	990		99n
Conc.	101		.26	.17	. 29	.28	.31	.97	.17	.17	.25	.17	Ε.		.17	4.	.27	.27	.24	1.7	.27		.84		.58	.17	.23		-5.	1.1	.92	.17	1.8	.32	.27	.35	.51	.17	~:	.17	.17	.28		.48
Meas. Bool.	- L	: =	: 5	,	5	=	Ļ	5	5	-	5	_	17		ר	5	5	5	5	Š					5	_	5		1	-1	5	ב	1	LT	Ľ	7	ב	7	ב	1.1	5	5		17
Analyte Description	Bis(2-ethylhexyl) phthalate	Di-n-octvl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,D] pyrene	Benzo [b] fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzo[a]pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo[a]anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9H-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol
CAS No.	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		534-52-1		541-73-1	56-55-3	59-50-7		606-20-2	621-64-7	65-85-0	67-72-1	77-47-4	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3		87-86-5
Meth/ Matrix																																												
Lab Lab Anly. No.	PC 57088																																											

* - Analyte Description has been truncated. See Data Dictionary

Field Sample No. 1

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

					Sampling	Date Range: 01-JAN-91	11-JAN-91 24-OCT-94					
٠.	Depth	Sample Date	rab ,	Lab Lab Anly. No.	_	CAS No.	Analyte Description	Meas. Bool.	Conc.	Unit Meas.	Flag Codes	D ata Quals
	17.0	21-558-02	: 6	57088		. 70 00		1 1 1		1	1	1
		74-471-17	7	21,000	LM30/	7-00-00	2,4,6-Irichlorophenol	_ :	wi i	99n		
						88-75-5	2-Nitrophenol		.36 26	990		
						91-20-3	Naphthalene / Tar camphor		27.	990		
						91-57-6	2-Methylnaphthalene	; 5	.17	990		
						91-58-7	2-Chloronaphthalene	LT	.33	99n		
						91-94-1	3,3'-Dichlorobenzidine	Ş	99.	ngg	∝	
						95-48-7	o-Cresol / 2-Cresol / 2-Methylphenol	LT	.17	DBU		
						95-50-1	1,2-Dichlorobenzene	-	.32	990		
						95-57-8	2-Chlorophenol	11	.17	DDO		
						95-95-4	2,4,5-Trichlorophenol	ב	.24	990		
						98-95-3	Nitrobenzene / Essence of mirbane /	LT	.19	990		
						;	Oil of mirbane					
						69-09-5	3-Nitroaniline	Ş	1.7	990	~	
							4-Bromophenyl phenyl ether	1,	.17	990		
							4-Chlorophenyl phenyl ether	ŗ	~:	990		
							Unknown compound 533		.241	DDO	œ	
									.362	9 9 0	s	
							Unknown compound 582		.121	990	S	
									.121	DDO	S	
							compound		.121	990	s	
									.121	DDO	s	
							compound		.241	nec	S	
									.241	000	S	
							compound		.241	9 90	s	
							Unknown compound 629		.603	000	8	
									.483	nee	s	
							compound		.362	ngg	S	
							compound		.362	บยต	s	
							compound		.362	ngg	S	
									.362	55N	s	
							Unknown compound 661		.241	9 9 0	y (
									171.	550	ر د	
							Unknown compound 668 Unknown compound 660		.241	99N	s s	
									17.0	מסת.	n (
					LM33/	100-41-4	City Denzene	<u>-</u>		550 100	'n	
						100-42-5	Styrene / Ethenvilhenzene / Styrol /	: -	יי דר כ	550		
						1	Styrolene / Cinnamene *	ij		000		
						10061-01-5	cis-1,3-Dichloropropylene / cis-1,3-	11	3.0 E -3	990		
							Dichloropropene					
						107-06-2	1,2-Dichloroethane	LT	2.7 E -3	99N		
						1-01-201	Methyl Isobutyl Ketone /	ב	ш	990		
							Isopropylacetone / 4-Methyl-Z-pen*					

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-OCT-

Site Site Type ID BORE 91822

Data Quals																																										
Flag																										~																
Unit Meas.	990	990 Ngo		99N	990		990		DOC	9 5 0	ngg	990	ngc	9 9 0	990	990	990	990	9 9 0	990	990	9 9 0	9 9 0	วบิก		990	990	9 9 0	ngc	ngc		nec		99N	ngg	OGG		990	990		nee	
Conc.	ш	2.5 E -3 5.7 E -2	ı	2.5 E -3	2.5 E -3		2.5 € -3		ш	1,8 € -2	ш	2.6 E -3	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш			ш	2.5 E -3		2.5 E -3	ш		1.2 E -2			ш	.25		.251	.51		667.	
Meas. Bool.	רַ	בן בן	;	[1	-	;	ב		ב	ב		<u>_</u>	ב	<u></u>	<u></u>	ב	5	ב	7	ב	ב	ב	ב	-		읒	Ċ	ב	L	ב		ב	!	ב	ב	L1		ר	ב		ב	
Analyte Description	Toluene	Chlorobenzene / Monochlorobenzene Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen* cis-1.2-Dichloroethylene / cis-1.2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*		Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	
CAS NO.	108-88-3	108-90-7 124-48-1		127-18-4	156-59-2		156-60-5		56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	24-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		2-34-2				118-96-7		121-14-2	121-82-4		2691-41-0	4/9-45-8
Meth/ Matrix	LM33/																																			LW32/						
Lab Anly. No.	PC 57088																																									
Sample Date	2																																									
Depth	17.0																																									
Field Sample No.	9182210																																									

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO

24-0CT-94	
01-JAN-91	
Date Range:	
Sampling Da	

	Data Quals	t t																																							
	Flag Codes																								-											~	:				
	Unit Meas.	990	990	וופט	ngg	:	ອອດ	ეეე ეეე	ם פרי	990	รูยา	990	990	วอก	990	DOC	990	DOO	990	990	990	ngg	DOO	990	990	DOO	DOO	บบก	99n	990	200	200	8 E	99	99	990	990	990	99n	990 0	
	Conc.	1.27	2.5	۲,	2.5		.505.		6%	.245		8.70 E -2	1.01	15000	16000	36.5	575	70.6	4	7.5	301	85.3	12.5	82.9	12.7	18.8	દ્ધ:	.427	11.5	0.71	2,75	. 5.	415	12.4	1.22	1.7	2.5	.17	.33	.17	
	Meas. Bool.	5	1	17	: 5	<u>!</u>	<u>.</u> :	5	; <u>-</u>	: 5	5	5	ר						ב	1			ב	ב	용		5	<u></u>						_	: 1	9	5	=	<u>ا</u> د	55	
01-JAN-91 24-OCT-94	Analyte Description	Tetryl / N-Methyl-N,2,4,6-	Virtually outstill / 1,2,3-Propanetriol	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	Z-Witrotoluene	3-Nitrotoluene 1 % S-Trinitrohenzene	1.3-Dinitrohenzene	4-Nitrotoluene	Mercury	Mercury	Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium		Copper	Vanadium	Zinc	Calcium	Selenium	Cyanide	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	Z,4-Dimethylphenol	<pre>p-Creso(/ 4-creso(/ 4-Methylpheno() 1,4-Dichlorobenzene</pre>	
Date Range: 01-JAN-91	CAS NO.	479-45-8	55-63-0	606-20-2	78-11-5	69-77-3	2-7-00	7-52-66	99-65-0	0-66-66	7439-97-6	9-26-6272	7440-22-4	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2440-09-7	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7/10 /7 7	7-87-0447	7440-50-8	7440-62-2	2440-66-6	7440-70-2	7782-49-2	57-12-5	100-01-6	100-02-7	100-51-6	707-67-9	106-44-3	
Sampling [Meth/ Matrix	LW32/									/908r	7908	JC02/	JS14/																					KY04/	LM30/					
	Lab Anly. No.										PC 57088																														
	Sample Depth Date	17.0 21-FEB-92									17.0 21-FEB-92																														
	Field Sample No. De										_	918222C 10																													
	Site Site Type ID	9																																							

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Site ID ----91822

Site Type

Data Quals	! ! !																																									
Flag Codes	<u>~</u>																								۵	£																
Unit Meas.	090	99N	9	990	ววก	วอก	990	990	990	990	990	nec	nec	990	OCC	99N	ngc	ออก		ngg	990	990	บยก	1166	2011	990	200	9911		990	nec	DOU	990	DOO	ngg	ngg	DOU	DOU	990	990	990	990
Conc.	3.3 E -2	.17	:	1.6	.17	.19	.22	.26	.17	.29	.28	.31	.97	.17	.17	.25	.17	22		.17	7	.27	72.	77	1 7	27	17.	78*		.58	.17	.23	-2	1.1	.92	.17	1.8	.32	.27	.35	.51	.17
Meas. Bool.	Ş	<u>-</u> -	<u>.</u>	5	=	Ľ	5	ב	ב	ב	<u></u>	=	ר	ב	רַ	ב	ב	ב		=	11	: =	-	i <u>-</u>	; <u>S</u>	<u>-</u>	3	<u>-1</u>	i	רו	ב	ב	=	11	[1	-1	=	L1	ב	11	5	Ľ
Analyte Description	4-Chloroaniline	Bis(2-chloroisopropyl) ether Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Kexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,D]pyrene	Benzo[b]fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzofalbyrene	2.4-Dinitrophenol	Dibenziahlanthracene / 12:5 4-	Dibenzanthracene	4.6-Dinitro-2-cresol / 2-Methyl-4.6-	dinitrophenol	1,3-Dichlorobenzene	Benzo[a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene
CAS No.	106-47-8	108-60-1 108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		534-52-1		541-73-1	56-55-3	29-20-7	606-20-2	621-64-7	65-85-0	67-72-1	77-47-4	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8
Meth/ Matrix	LM30/																																									
Lab Anly. No.	PC 57096																																									
Sample Date	21-FEB-92																																									
Depth	100.0																																									
Field Sample No.	91B222C																																									

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Site Site Type ID SORE 91822

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-0CI-

24-001-94

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	Flag	Codes	COCIC													œ	:						œ	:		œ	1 22		2	o u	,															
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		Conc	5 1	^	; c	- 21	. 80	9	87	· ~	, 2	; ×	5.5	17	33	99.	.17	.32	.17	.24	19		1.7	.17	^	.241	. 12	24.1	787			יר ה הי		6 E -3		ш	4 E -2		i iii	5 E -3	_	•	5 E -3		5 E -3	
	Meas.	Bool		-	. ₋	- F	- 1-	;		; <u>-</u>	; =	; =	; <u>-</u>	; =	; <u> </u>	S	L1	-1	LI	: -:	-11		QN	-	-	i					-	. <u> -</u>	i				LT		-1	LI	<u>_</u>		LT		ב	
		Analyte Description		Butvibenzyi phthalate	N-Nitrosodinhenvlamine	Flincene / OH-Flincene	Bexachlorobutadiene / Hexachloro-1 3-	butadiene	Pentachlorophenol	2.4.6-Trichtorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	Unknown compound 533	Unknown compound 537		Unknown compound 629	Unknown compound 652	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	1,2-Dichloroethane	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene
•		CAS No.		85-68-7	86-30-6	86-73-7	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		69-09-2								100-41-4	100-42-5		10061-01-5		107-06-2	108-10-1		108-88-3	108-90-7	124-48-1		127-18-4		156-59-2	156-60-5
	Meth/	Matrix		LM30/	•																										LM33/															
	Lab	Lab Anly. No.		PC 57096																																										
		n Date		7																																										
		Depth		100.0																																										
	Field	Sample No.		91B222C																																										

^{* -} Analyte Description has been truncated. See Data Dictionary

127-18-4 156-59-2 156-60-5

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-0CT-

Data Quals	1 1																																										
Flag Codes	:											æ							œ																								
Unit Meas.	090	991	ngg	DOO	990	nec	กดิด	ออก	กดด	DGG	ngg	ngg	990	DOC	990	990	nec		990	ngg	000	950	990		990		990	990	บบต		990	DDO		990	990		ngg		55N	990	991	990	
Conc.	5 E -3		4 E -2		5 E -3	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш	ш		ш	5 E -3	ш	ш	ш		2 E -2		2 E -2	5 E -3	.25		.251	.51		667	1.27		2.5		۲.	2.5	202	.251	·
Meas. Bool.	- 11	<u>_</u>	: 5		<u>'</u>	_	LŢ	בו	ב	ב	L		ר	רו	ב	ר	ב		QN ON	LT	-1	ר	ב		רו		ר	ר	<u>-</u> 1		ļ	Ľ		ר	Lī		Ľ		רַז	ב	_	: 5	i
Analyte Description	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2-Nitrotoluene	3-Ni trotoluene	
_		_	_	_	_	_										•																											
	156-60-5	56-23-5	9				7-55-6	74-85-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5				118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5	88-72-2	99-08-1	
CAS No.							71-55-6	74-85-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		26-34-5				LW32/ 118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5	88-72-2	99-08-1	
Meth/ Matrix CAS No.	156-60-5						9-55-17	74-83-9	74-87-3	75-00-3	75-01-4	75-09-5	75-15-0	75-25-2	72-52	12-34-3	75-32-4		7-69-52	2-28-82	78-93-3	5-00-62	79-01-6		29-34-5				_		121-14-2	121-82-4		2691-41-0	8-57-62-8		55-63-0		606-20-2	78-11-5	88-72-2	99-08-1	
Sample Lab Meth/ Date Lab Anly. No. Matrix CAS No.	21-FEB-92 PC 57096 LM33/ 156-60-5						9-50-17	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	12-34-3	75-35-4		7-69-52	28-82-5	78-93-3	5-00-62	79-01-6		5-75-62				_		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		7-02-50-5	78-11-5	88-72-2	99-08-1	
Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No.	PC 57096 LM33/ 156-60-5						9-56-17	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		7-69-52	28-87	78-93-3	5-00-62	79-01-6		26-34-5				_		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5	88-72-2	99-08-1	
Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No.	21-FEB-92 PC 57096 LM33/ 156-60-5						9-66-17	6-8-7/	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	7-32-4		7-69-52	2-8-82	78-93-3	5-00-62	79-01-6		26-34-5				_		121-14-2	121-82-4		2691-41-0	8-59-62-8		55-63-0		20-50-5	78-11-5	88-72-2	1-80-66	
Site Field Sample Lab Meth/ ID Sample No. Depth Date Lab Anly. No. Matrix CAS No.	100.0 21-FEB-92 PC 57096 LM33/ 156-60-5						9-63-17	74-83-9	24-87-3	25-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4		75-35-4		72-69-52	78-87-5	78-93-3	29-00-5	79-01-6		79-34-5				_		121-14-2	121-82-4		2691-41-0	479-45-8		95-63-0		606-20-2	78-11-5	88-72-2	99-08-1	

^{* -} Analyte Description has been truncated. See Data Dictionary

Site Site Type ID

91823

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91 24-0CI-

Data	Ottals																																												
Flag	Codes															-																							_						
Unit	Meas.	ngg	990	9 5	990	9 9 1	990	991	990	990	990	990	990	990	990	990	บบ	000	ออก	990	990	990	990	990	990	990	990	990	990	กรูด	ngg	990	99 n	9 9 0	990	บบก	UGG	990	990	990	990	990	990	DOC	
;	Conc.	.25	.249	247 101	12000	47000	51.6	1560	096	7	41.3	812	22	12.5	82.9	12.7	53.6	3.5	.427	23.6	37.3	7.77	75.4	92.5	1450	12.4	1.01	17000	00067	55.2	1550	1300	4	50.3	734	93.5	12.5	82.9	12.7	59	3.66	.427	22.8	54.1	
Meas.	5000	ב	בי בי	<u> </u>	;					17	i			רז	ר	Q			רן							-	5						LT				-1	ב	Q.			=			
0 to 0 to 0 to 0 to 0 to 0 to 0 to 0 to		99-35-4	99-65-U 1,5-Dinitrobenzene 99-99-0 2-Mitrofolusma	7-			7439-92-1 Lead	7439-95-4 Magnesium	_					7440-28-0 Thallium	7440-36-0 Antimony	7440-38-2 Arsenic	_	_		_	7440-48-4 Cobalt	7440-50-8 Copper	7440-62-2 Vanadium	7440-66-6 Zinc				7429-90-5 Aluminum		_	7439-95-4 Magnesium	_		_	_	••			7440-38-2 Arsenic		_		_	7440-48-4 Cobalt	
Meth/		LW32/		JC02/	JS14/																						JC05/	JS14/																	
Lab		PC 57096		PC 42323																							PC 42331																		
Sample		21-FEB-92		07-FEB-92																							100.0 07-FEB-92																		
Denth		100.0		37.5																						:	100.0																		
Field Sample No.		91B222C		S091B23																																									

^{* -} Analyte Description has been truncated. See Data Dictionary

24-0C1-94
 01-JAN-91
Range:
g Date
Sampling

Field Sample No.

Site Site Type ID BORE 91823

24-0CT-94

S091B23C

Data Quals						
Flag Codes		~	~			œ
Unit Meas.	990 990 990	990 990 990 990 990	990 990 990	997 997 997 990 990 990 990	99n 99n 99n 99n 99n 99n	990 990 990 990 990 990 990
Conc.	49.5 76.5 94.4 1860	2.5 2.5 2.5 33 33 17	.33 .17 .16	7. 6. 8. 8. 8. 8. 8. 8. 8. 8.	25. 25. 25. 25. 27. 27. 27. 27.	.4. .27. .24. .27. .27. .84. .58
Meas. Bool.	<u> </u>	: בנננפ	18 TT T	:ddddd:	:ל בכלכככנ	111181 1
Analyte Description	Copper Vanadium Zinc Calcium Selenium	Mercury 4-Nitroaniline 4-Nitrophenol Benzyl alcohol 2,4-Dimethylphenol p-Cresol / 4-Cresol / 4-Methylphenol	4-Chloromiline Bis(2-chloroisopropyl) ether Phenol / Carbolic acid / Phenic acid / Phenylic acid / Phe* Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane Bis(2-ethylhexyl) phthalate Di-n-octyl phthalate Hexachlorobenzene Anthracene 1,2,4-Trichlorobenzene 2,4-Dichlorophenol	2,4-Dinitrotoluene Benzoldef]phenanthrene / Pyrene Dimethyl phthalate Dibenzofuran Benzolghi]perylene Indeno[1,2,3-C,D]pyrene Benzolb]fluoranthene / 3,4- Benzofluoranthene	Benzolkirluorantnene Acenaphthylene Chrysene Benzolalpyrene 2,4-Dinitrophenol Dibenzlahlanthracene / 1,2:5,6- Dibenzanthracene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- dinitrophenol 1,3-Dichlorobenzene Benzolalanthracene
CAS No.	7440-50-8 7440-62-2 7440-66-6 7440-70-2	7439-97-6 100-01-6 100-02-7 100-51-6 105-67-9 106-44-5	106-47-8 108-60-1 108-95-2 111-44-4	111-91-1 117-81-7 117-84-0 118-74-1 120-12-7 120-83-2	121-14-2 131-11-3 132-64-9 191-24-2 193-39-5 205-99-2	201-08-7 208-96-8 218-01-9 50-32-8 51-28-5 53-70-3 534-52-1 541-73-1
Meth/ Matrix	JS14/	JB06/ LM30/				
Lab Lab Anly. No.		PC 42323 PC 42323				
Sample Date	07-FEB-92	06-FEB-92 07-FEB-92				
. Depth	100.0	37.5				

* - Analyte Description has been truncated. See Data Dictionary

24-001-94

Site Site
Type ID
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BORE 91B23

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

	Data	Quals	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																																										
	Flag	Codes	t 1 1																								œ	:						~			29	S	89						
	Unit	Meas.		חפת	9911	990	990	990	990	991	990	99	990	990	990	ngg	วยก	nge		990	ngg	990	990	000	ngg	nec	990	990	990	000	ngg	ngg		DGG	990	<u> </u>	990	DBO	ngg	990	990		990	3311	3
		Conc.	2.2	G:	.2	: [:	.92	17	8.1	.32	.27	35	.51	.17	.2	.17	.17	.28		84.	.3	.36	.26	.17	.17	.33	99.	.17	.32	.17	.24	.19		1.7	.17	2.	.132	.2 6 5			2.5 E -3		3.0 E -3	276-2	_
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76-120-37		Analyte Description	3-Methyl-4-chlorophenol / 4-chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9H•Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether		Unknown compound 535	Unknown compound 631	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	1.2-Dichloroethane	
Date Kange: UI-JAN-91		CAS No.	29-50-7		606-20-2	621-64-7	65-85-0	67-72-1	7-47-47	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		2-60-66						100-41-4	100-42-5		10061-01-5	107-06-2	108-10-1
sampt ing	Meth/	Matrix	LM30/	; !																																				LM33/					
•		Lab Anty. No.	PC 42323																																										
	Sample	nate 	07-FEB-92																																										
		neptn 	37.5																																										
	Field	sample NO.	S091B23C																																										

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type 1D

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-0C1-94

Data Quals																																											
Flag																													œ														
Unit Meas.	ncc	9311	B0 1	990		990		ngg		ngg		990	ออก	990	990	990	990	990	990	ngg	990	990	990	990	nge	nec	ngg		ยยก	990	990	990	9 9 0		9 9 0		990	990	ngg		990	990	
Conc.	1.9 E -2	U	u L	5.7 E -2		2.5 E -3		2.5 E -3		2.5 € -3	1	3.1 E -3	ш	ш	ш	ш	ш	ш	ш		ш	6.2 E -3	ш	ш	ш	ш	3.2 E -2		ш	ш		2.5 E -3			1.2 E -2		7.5 € -3	ш	.25		.251	.51	
Meas. Bool.	LT	<u>-</u>		: 5				1		ב	!	<u>.</u>	<u>-</u> :		-1	ב	ר	۲٦	ב	17	רי	ר	ב	-1	רַ	=	-1		Q	-1	LT	11			11		Ľ	ב			Ľ	Ľ	
Analyte Description	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Chloroberrong / Monochloroberrone	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1.1-Dichloroethane	1.1-Dichloroethylene / 1.1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*		Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *
CAS No.	108-10-1	100 00 7	100-00-7	124-48-1		127-18-4		156-59-2		156-60-5	1	56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5				118-96-7		121-14-2	121-82-4	
Meth/ Matrix	LM33/																																						LW32/S				
	PC 42323																																										
Sample Date	07-FEB-92																																										
Depth	37.5																																										
Field Sample No.	S091B23C																																										

^{* -} Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Site Site Type ID ----BORE 91823

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

	Data	onals	:																																														
	Flag	Codes																•	Ľ						~	!																							
	Unit	Meas.		990	990		000		000	99n		990	ยยเ	ยูยเ	201	000	9 5	ממח	990	990	000	990	990	990	990	บูยเ	991)	9911	200	B 0	991	991	991	990	990	990	990	990	990	250	200	990	5	3011	BB0	991	990 Nge	
		Conc.		444	1.27		2.5		٠. ¦	2.5		.505	.251	52	0%	245	870	2.7	- c	7.7	- ;	.33	.18	.17	.33	. 17	17		1.6	17	. 0	2	2,5	17	. 29	.28	.3	26.	17	17	ሂ		: K	:	17	7	7.0	.27	
	Meas.	Bool.	: :	<u>.</u>	_	1	_	:	: : د	-1		ב	11	1	: <u>-</u>	- <u>-</u>	i	9	<u>-</u>	; ;	::	_		רַ	옾		: <u>-</u>	į	_	; <u>-</u>	: <u>-</u>	: <u>-</u>	: 1	1	Ľ	ר	LŢ	LŢ	_	: 5	<u>-</u>	. <u>-</u>	; <u>-</u>	i	_	; <u>-</u>	i <u>-</u>	: 5	
		Analyte Description		Total / N-M-thal N 2 / /	tetranitroaniline / Nitramine / *	Nitherent Control / A 2 2 August 1	Milioglycerine / 1,2,5-Propanetriol	2 4-Dinitnotalian		Pelw / Pentaerythritol tetranitrate /	Z,Z-Bls[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1.3-Dinitrobenzene	4-Nitrotoluene	Mercury	4-Nitroaniline	4-Nitrophenol	Renzyl alcohol	2 (= 5) imothyl phonol	z,4-bimetnylphenol	p-cresol / 4-cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	BenzoIdef]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	8enzo[ghi]pervlene	Indeno[1,2,3-C.D]pyrene	Benzo (b) fluoranthene / 3.4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	
I	0 N J	CA3 NO.	2601-61-0	70-75-8	5	55-63-0	200	6-06-20-2	78-11-6	6-11-01	i	88-72-2	99-08-1	99-35-4	0-69-66	0-66-66	2439-97-6	100-01-6	100-02-7	100-51-6	105-67-0	105-01-9	100-44-0	7-04-001	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	
	Meth/	VI 1701.	1 1732 / 5	,													JB06/	LM30/																															
	Lab		PC 42323														PC 42331																																
	Sample		07-FEB-92														100.0 07-FEB-92																																
	Depth		37.5														100.0																																
	Field Sample No.		S091B23C																																														

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

Site ID ----91823

Site Type

24-001-94

Data Quals	1 1 1																																																
Flag		-	2																																		œ							۵	4			S	æ
Unit Meas.	551	900	פפס :	990	-	990		99N	วยเ	351 150	3	:	990	99N	990	990	990	ยูยเ	3 5	990	990	990	nee	DOC	2011	การ	กอก	990		990	990	990	990	DOO	DOU	990	990	990	990	990	วยก	ngg	;	3311	000	บเล	990	nec	NGG
Conc.	76		- !	.21	à	, 84		.58	17	. 12	}	•	٧.	-:	.92	-17	8	2			٠ .	.51	.17	2.	17	- 1	- 6	87.		84.	٣.	.36	.26	.17	.17	.33	99:	.17	.32	.17	.24	19	:	17	- [<u>-</u> .	7.	. 133	.265
Meas. Bool.	· -	<u>.</u>	2	5		5		_	_	;	;		-	ב	_	[]	<u></u>	i <u>-</u>	; <u>;</u>	<u>.</u>	5		Ľ	5	-	<u>.</u> :	_ 1	_		5	ב	LI	L	ב	ב	Ľ	Q	Ľ	ב	5	ב	-1	i	Ş	<u> </u>	ָב!	_		
Analyte Description		benzolajpyrene	z,4-uinitrophenot	Olbenz[ah]anthracene / 1,2:5,6-	Unbenzanthracene	4,6-Dinitro-Z-cresol / Z-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Renzofalanthracene	3-Mathyl-7-chlorophenol / 4-Chloro-3-		CLESOL / 4-CA[OLO-3-III-	Z,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexach lorocyclopentadiene	Isonborone	Acceptable of the	Aceriaphitmene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	NaMi trocodi phomy lamina		rigorene / yn-rigorene	Hexachlorobutadiene / Hexachloro-1,5-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	Z-Witrophilipe	Anticontrol of the	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	Unknown compound 535	Unknown compound 631
CAS No.	50-23-8	20-32-0	C-07-16	55-70-5		554-56-1		541-73-1	54-55-3	59-50-7			7-07-909	621-64-7	65-85-0	67-72-1	7-77-72	78-59-1	0.62.28	07-75-7	2-99-48	84-74-2	85-01-8	85-68-7	84-30.4	96-30-9	7-07-00	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	65-48-7	95-50-1	95-57-8	95-95-4	98-95-3)	00-00	7 /0 //				
Meth/ Matrix	1 420 /	LW20/																																															
Lab Anly. No.	1226/ 34	PC 46331																																															
Sample Date	07 110																																																
_		9.																																															
Field Sample No.	0200000	207 1823																																															

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ----BORE 91823

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSO Sampling Date Range: 01-JAN-91

24-001-94

					Sampring	Date Range: 01-3AN-71	11-JAN-YI 24-UCI-94					
Field Sample Mo Do	4	Sample	-	Lab	Meth/	:		Meas.		Unit	Flag	Data
		Date	rap	Lab Anty. No.	Matrix	CAS NO.	Analyte Description	Bool.	Conc.	Meas.	Codes	ouats
S091B23C 10	100.00	07-FEB-92	S		LM33/	100-41-4	Ethylbenzene	: ! -	2. H 2 C	1100	1	:
						100-42-5	Styrene / Ethenylbenzene / Styrol /	: 5		990		
							Styrolene / Cinnamene *		ı			
						10061-01-5	cis-1,3-Dichloropropylene / cis-1,3-	LT	3.0 E -3	990		
							Dichloropropene					
						107-06-2	1,2-Dichloroethane	Ľ	ш	ngg		
						108-10-1	Methyl isobutyl ketone /	-1	1.9 E -2	990		
							Isopropylacetone / 4-Methyl-2-pen*					
						108-88-3	Toluene	ב	ш	990		
						108-90-7	Chlorobenzene / Monochlorobenzene	-	ш	990		
						124-48-1	Dibromochloromethane /	בלו	5.7 E -2	990		
							Chlorodibromomethane					
						127-18-4	Tetrachloroethylene /	_	2.5 E -3	990		
							Tetrachloroethene / Perchloroethylen*		ı	:)		
						156-59-2	cis-1,2-Dichloroethylene / cis-1,2-	-1	2.5 E -3	990		
						:	Dichloroethene					
						156-60-5	trans-1,2-Dichloroethylene / trans-	ב	2.5 E -3	990		
						1	1,2-Dichloroethene					
						56-23-5	Carbon tetrachloride	רַז	ш	nee		
						591-78-6	Methyl n-butyl ketone / 2-Hexanone	רַן	ш	990		
						67-64-1	Acetone	בן	ш	990		
						67-66-3	Chloroform	ר	ш	990		
						71-43-2	Benzene	[1	ш	990		
						71-55-6	1,1,1-Trichloroethane		ш	991		
						74-83-9	Bromomethane	. . .	ш	990		
						74-87-3	Chloromethane	: <u>-</u>	ı	550		
						75-00-3	Chloroethane	; -	3.0 E	990		
						75-01-4	Vinyl chloride / Chloroethene	: =	ш	991		
						75-09-2	Methylene chloride / Dichloromethane	1 5	ш	990		
						75-15-0	Carbon disulfide	5	ш	990		
						75-25-2	Bromoform	LT	ш	990		
						75-27-4	Bromodichloromethane	רו	ш	990		
						75-34-3	1,1-Dichloroethane	[1		000		
						75-35-4	1,1.Dichloroethylene / 1,1-		ш	nec		
						;	Dichloroethene					
						75-69-4	Trichlorofluoromethane	QN	ш	nec	~	
						78-87-5	1,2-Dichloropropane	רז	2.5 E -3	990	:	
						78-93-3	Methyl ethyl ketone / 2-Butanone	L	ш	990		
						79-00-5	1,1,2-Trichloroethane	ב	ш	1100		
						79-01-6	Trichloroethylene /Trichloroethene /	L.1		990		
						;	Ethinyl trichloride /T*					
						79-34-5	Tetrachloroethane / 1,1,2,2-		1.2 E -2	990		
							Tetrachioroethane / Acetylene *			:		
							סואוסאו בסוויססחות סגם		.00928382016/	nee	S	

^{* -} Analyte Description has been truncated. See Data Dictionary

Data Quals

24-0CI-9 4	
01-JAN-91	
Sampling Date Range:	

Flag Codes	1 1 1 1																				_	-			
Unit Meas.	UGG	990	กดด		กดิด	000		nge	ngg		ngg		อยูก	ngg		ngg	ngg	990	990	ngg	ngg	990	DOO	UGG	000
Conc.	7.5 E -3	2.5 E -3	.25		.251	.51		667.	1.27		2.5		٠.	2.5		.505	.251	52:	. 249	.245	10	10	62.8	10	20.4
Meas. Bool.			[]		רַ	ב	•	H			L		_	ר		ב	_	-	ב	_	Q	S		용	
Analyte Description	Xylenes, total combined	trans-1,3-Dichloropropene	2,4,6-Trinitrotoluene / alpha-	rinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	:rinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	<pre>retryl / N-Methyl-N,2,4,6-</pre>	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Total petroleum hydrocarbons	Total petroleum hydrocarbons	Total petroleum hydrocarbons	Total petroleum hydrocarbons	Total petroleum hydrocarbons
∢	i £	+	~ 1	_	(4	_	_	•		_	_														
CAS No. A	×		118-96-7 2		121-14-2 2			2691-41-0	•		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-69-66	0-66-66					
									•					78-11-5		88-72-2	99-08-1	99-35-4	0-59-66	-	/ 00	/ 00	/ 00	/ 00	/ 00
Lab Meth/ Anly. No. Matrix CAS No.	42331 LM33/		118-96-7						•					78-11-5		88-72-2	99-08-1	99-35-4	0-99-66		49174	49174D 00 /			
Lab Meth/ Anly. No. Matrix CAS No.	PC 42331 LM33/		118-96-7						•					78-11-5		88-72-2	99-08-1	69-35-4	0-59-66		PC 49174	491740	PC 49182	PC 49190	PC 49204
Lab Meth/ Anly. No. Matrix CAS No.	92 PC 42331 LM33/		118-96-7						•					78-11-5		88-72-2	99-08-1	99-35-4	0-9-66		PC 49174	491740	13-FEB-92 PC 49182	13-FEB-92 PC 49190	13-FEB-92 PC 49204
Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No.	100.0 07-FEB-92 PC 42331 LM33/		118-96-7						•					78-11-5		88-72-2	99-08-1	7-32-66	0-59-66		49174	491740	PC 49182	13-FEB-92 PC 49190	13-FEB-92 PC 49204
Sample Lab Meth/ Date Lab Anly. No. Matrix CAS No.	100.0 07-FEB-92 PC 42331 LM33/		118-96-7						•					78-11-5		88-72-2	99-08-1	7-52-66	0-59-06		PC 49174	491740	13-FEB-92 PC 49182	30.0 13-FEB-92 PC 49190	40.0 13-FEB-92 PC 49204
Sample Lab Meth/ Depth Date Lab Anly. No. Matrix CAS No.	S091823C 100.0 07-FEB-92 PC 42331 LM33/		118-96-7						•					78-11-5		88-72-2	99-08-1	99-35-4	0-69-66		10.0 13-FEB-92 PC 49174	491740	20.0 13-FEB-92 PC 49182	30.0 13-FEB-92 PC 49190	40.0 13-FEB-92 PC 49204
Field Sample Lab Meth/ Sample No. Depth Date Lab Anly. No. Matrix CAS No.	91823 S091823C 100.0 07-FEB-92 PC 42331 LM33/		118-96-7						•					78-11-5		88-72-2	99-08-1	66-32-4	0-99-66		918241C 10.0 13-FEB-92 PC 49174	491740	20.0 13-FEB-92 PC 49182	30.0 13-FEB-92 PC 49190	40.0 13-FEB-92 PC 49204

^{**} End of Report - 2292 Records Found **

Appendix H Sediment Data

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91

3 KY04/ 57-12-5		,	:	
KY04/	:			1
		PC 66508		သ
				Š
1800/ (439-97-6		r. 00300	.	04-MMK-92 PL
7439-92-1				
50-0572				
2-96-627				
7.30-08.7				
7440-02-0				
2-60-0772				
7440-23-5				
7440-28-0				
7440-36-0				
7440-38-2				
2440-39-3				
7440-41-7				
2440-43-9				
2440-42-3				
7440-48-4				
7440-50-8				
7440-62-2				
2440-99-9				
7440-70-2				
LW32/ 118-96-7	_	_		
121-14-2				
121-82-4				
2691-41-0				
479-45-8				
0-27-35				
0-60-66				
70,				
906-20-2				
78-11-5				
88-72-2				
99-08-1				
99-35-4				
0-59-66				
0-66-66				

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91 24-0CT-

Da t a Quals	:																																											
Flag Codes	: : :													-																														
Unit Meas.	ngg	990	990	990	ววก	99N	990	nee	990	ออก	990	990	ngg	990	nge	ngg	990	990	990	990	991	955	900	າດດ	990	990		990	990		990	990	-	กรูก	201	200	กรุก	201	200	200	ຄຸດ	990	990	กดีย
Conc.		8.70 E -2	16000	12000	19.1	679	240	7	12.8	209	20	12.5	82.9	12.7	59.6	.498	.427	15.9	20.7	12.3	7-02	7 67	7	601	12.4	.25	, i	[5]	ŗ.		665	1.27		۲.5	u		6.2	505	25.	5.	0,7	375	C#7.	77.1
Meas. Bool.	17	55	į					11			ב	5	11	S			11						-	5 <u>*</u>	! ت	=======================================		: :	_		_	ב	-	3	-	<u>-</u>	3	=	; :			; :	<u>.</u>	<u>_</u>
ă	Cyanide	Mercury Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zine	a in a large and a		setenium setenium setenium setenium setenium setenium setenium setenium setenium setenium setenium setenium se	<pre>2,4,6-Trinitrotoluene / alpha- Trinitrotoluene</pre>		6.4-Dimitrototuene	trinition 3 5. trinition *		cyclotetrametnylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	Nitronlycering / 1 2 Z-Drongetriel	ringsyceline / 1,2,3-Flopanetilot	2 6-Dinitrotoliene	tol tetronitrate	2 2-8is [(nitrooxy)me*	2-Nitrotoluene	3-Nitrotolijope	1 % F-Trinitrobenzene	1 3-Dinitrobonzone	6-Nitrotolijane	לייטון לי	cyanne
CAS No.	57-12-5	7439-97-6 7440-22-4	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-05-2	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	7440-66-6	2-02-0772	2 07 0447	7-64-7011	118-96-7	124-11-2	121-14-6	121-02-4	0-17-1070	0-14-1607	4/4-42-8	0-29-55	3	2-02-909	78-11-5	-	88-72-2	99-08-1	7-52-00	0-59-00	0-00-00	57-12-5	71 - 15-7
Meth/ Matrix	KY04/	JB06/ JC02/	JS14/																						, (2)	LW32/																	VV0% /	1014
Lab Anly. No.	66516	66516																																									76534	13000
Lab A																																											٥	
Sample Date	04-MAR-92	04-MAR-92																											٠														CO-04M-20 0 0	1
Depth	0.0	0.0																																									-	;
Field Sample No.	S85D2	SBSDZ																																									CRSD3	2
Site	S8SD2																																										CRCD3	2000
Site	CREK																																											

* - Analyte Description has been truncated. See Data Dictionary

	Data Quals	: : : : : : : : : : : : : : : : : : : :																																						
	Flag Codes	1 1												-																										
	Unit Meas.	991	990	บอด	ออก	200) 	วยก	วอก	ออก	990	200	990 000	ngc	ngg	กดด	99n	กดีด	990 1	990	990	กรา	ออก	990	3	nge	ngg		990	nec	0.01	กอก	5 9 0	ngg		000 100	กาก	990	ngg	กดด
	Conc.	1.22	8.70 E -2	1.01	13000	41000	334	240	7	7.5	5/6 81.5	12.5	82.9	12.7	73.9	.704	.427	18.7	32.1	17	47.9	7.70	12 /		ì	.251	.51		667.	1.27	2 5		5.	2.5	i.	505.	<u>.</u> x	672		8.70 E -2
	Meas. Bool.		11	ב					ב	5		_	: 5	읒		;	ב						-	; ;	i	LT			[]		<u>-</u>	-	-	1.1	,	<u></u> :	<u> </u>	; ;	[]	ב
File Type: CSE Date Range: 01-JAN-91 24-0CI-94	Analyte Description	Cyanide	Mercury	Silver	Atuminum Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Sodium	Thattium	Antimony	Arsenic	Barium	Beryllium	Cadmium		Conner	Venedium	Valiation Call	Calcin	Selenium	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	letry(/ N-Methyl-N,2,4,6-	Nitroglycerine / 1.2 3-Propagatriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis(nitrooxy)me*	Z-Nitrotoluene Z-Nitrotoluene	1.3.5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury
	CAS No.	57-12-5	7439-97-6	4-77-044/	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7-14-044/	7440-43-9	7-87-0447	7440-50-8	26.04.7	7440-66-6	7440-70-2	7782-49-2	118-96-7		121-14-2	121-82-4	0 70 70 70	0-14-1697	8-64-614	55-63-0		606-20-2	78-11-5	88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	7439-97-6
Sampling	Meth/ Matrix	KY04/	1806/	JCU2/	14/07																			LW32/																JB06/
	Lab Anty. No.		PC 66524																																					PC 66552
	Sample th Date		.0 04-MAR-92																																				70	U.U U4-MAK-92
	ld e No. Depth																																							
	Field Sample No.	S85D3D	S8SD3																																				2000	ncnepe
	Site ID	S8SD3																																						
	Site Type	CREK																																						

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91 24-0CI-

24-0CI-94

Flag Data Codes Quals		
Unit F Meas. C	000 000 000 000 000 000 000 000 000 00	บอบ กลุย
Conc.	2000 48000 18.3 572 330 415.2 736 91.5 12.7 12.7 12.7 53.9 53.9 53.9 54.7 57.1 12.4 57.2 53.9 53.9 53.9 53.9 54.7 57.2 57.3 57.3 57.3 57.3 57.3 57.3 57.3 57.3	8.70 E -2 1.01
Meas. Bool.	; 5 558 5 55 55 5 5 5 5 5 5 5 5 5 5 5 5	:55
Analyte Description	Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium Codmium Cobalt Copper Vanadium Chomium Cobalt Irinitrotoluene Zi,4,6-Trinitrotoluene Zi,4,6-Trinitrotoluene Zi,4,6-Trinitrotoluene Zi,4,6-Trinitrotoluene Zi,4,6-Trinitrotoluene Zi,4,6-Trinitrotoluene Zi,6-Dinitrotoluene Zi,6-Dinitrotoluene Extranitroaniline / Nitramine / * Irinitrate Zi,6-Dinitrotoluene FETN / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Irinitrate Zi,6-Dinitrotoluene FETN / Pentaerythritol tetranitrate / Zi,6-Dinitrotoluene FETN / Pentaerythritol tetranitrate / Zi,8-Dinitrobenzene Zi,9-Dinitrobenzene Zi,9-Dinitrobenzene Zi,1,3-Dinitrobenzene	Mercury Silver
CAS No.	7,429-96-7 7,439-96-5 7,439-96-5 7,439-98-7 7,440-02-0 7,440-23-5 7,440-41-7 7,440-43-9 7,440-46-8 7,440-40-2 7,440-7-3 7,440-40-8 7,440-40-8 7,440-40-8 7,440-40-8 7,440-40-8 7,440-40-8 7,440-40-8 7,440-40-8 7,440-40-8 7,440-40-8 7,440-40-9 7,40-45-8 88-72-2 88-72-2 99-65-0 99-95-0	7439-97-6 7440-22-4
Meth/ Matrix		JB06/ JC02/
Lab Lab Anly. No.	07599	96540
Lab		<u>გ</u>
Sample Date	04-MAR-92	04-MAR-92
Depth		0.0
Field Sample No.	2005 2005 2005 2005 2005 2005 2005 2005	\$88D4
Site ID	70505 80505	
Site Type		

^{* -} Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91

Data Quals	:								
Flag	:		-						
Unit Meas.	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0 0 0 0 0 0 0	990 990 900	990 090 090	990 990 990	990 000 000	55U 06G	990 990 990 990 990	990 000
Conc.	17000 37000 24 613	28.9 735	12.5 82.9 12.7	95 .997 .427 19.6	55.8 33.9 52 87.3 358	.25 .25 .25 .51	.499 1.27 2.5	.5 2.5 2.5 .505 .251 .25	.25 .25 .25
Meas. Bool.	:	ב	5 7 7	5	!	55 55	55 5	55 5555	55 5
Analyte Description	Aluminum Iron Lead Magnesium Manganese	Molybdenum Nickel Potassium Sodium	Thallium Antimony Arsenic	Beryllium Cadmium Chromium	Cobelt Copper Vanadium Zinc Calcium	Sevenium 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1,3,5-	<pre>trinitro'1,5,5-triazine * Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate</pre>	2,6-Dinitrotoluene PEIN / Pentaerythritol tetranitrate / 2,2-Bis[(nitrooxy)me* 2-Nitrotoluene 3-Nitrotoluene 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene	4-Nitrotoluene 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene
CAS No.	7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5	7439-98-7 7440-02-0 7440-09-7 7440-23-5	7440-28-0 7440-36-0 7440-38-2	7440-41-7 7440-43-9 7440-47-3	7440-48-4 7440-50-8 7440-62-2 7440-70-2	118-96-7 1181-14-2 121-82-4	2691-41-0 479-45-8 55-63-0	606-20-2 78-11-5 88-72-2 99-08-1 99-55-0	99-99-0 118-96-7 121-14-2 121-82-4
Meth/ Matrix	J814/					LW32/			LW32/S
Lab Lab Anly. No.	PC 66540								44121
Sample Date La	35								0.5 09-FEB-92 PC
Depth	0.0								0.5
Field Sample No.	\$8\$D4								SSSD
Site ID	\$8\$D4								S5SD
Site Type									SKHLS

^{* -} Analyte Description has been truncated. See Data Dictionary

Site 1D

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91

	Data																																															
	Flag	Codes	1 1																														-													-	-	-
	Unit	Meas.	1 1 1	990		990	ngg		UGG	l	990	1166	! !	1166	9911	20 -	2 2	200	5 5	2011	000	990	000	บบบ บบบ	990	กดิด	กดิด	990	990	990	ngg	nge	nge	990	nge	ngg	9 9 0	990	990	99N	990	990	990	990	990	1000	5911	ngg
		Conc.	1 1 1 1	.51		667.	1.27		2.5		ις	2.5		.505	75.1	įχ	0%	27.5	2 70 6	u	0.0	0000	7000	_ .	158	009	7	7.5	797	20	12.5	82.9	12.7	77	.25	.427	23.1	15.7	22.4	41.5	422	3850	12.4	ш		8.00 E -2	щ	J
	Meas.	Bool.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ב		ב	-		-1		ר	-1		-	<u>-</u>	: =	. <u>-</u>	; =	; =	<u>-</u> -	;		-	<u>.</u> .	_	!	_	ר		רַן	1		Ð		1	17							-	[1	<u>-</u>	2	Ş	!
		Analyte Description		RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PEIN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1.3.5-Trinitrobenzene	1 3-Dinitrobenzene	4-Nitrotoluene	Mercilia	Silver	Alminim	Top	760		Magnes Lum	Manganese	Motypaenum	Nickel	Potassium	Sodium	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Соррег	Vanadium	Zinc	Calcium	Selenium	Heptachlor epoxide	Endosulfan sulfate	PCB 1221	PCB 1260	PCB 1254
		CAS No.		121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-65-0	0-66-66	9-20-6272	7440-22-4	2,29-00-5	7439-89-6	7,30-02-1	7/30-05-/	7/30-05-5	7, 20, 02, 7	1-94-46-1	7440-02-0	2440-05-2	7440-23-5	7440-28-0	7440-36-0	7440-38-2	7440-39-3	7440-41-7	2440-43-9	2440-47-3	7-85-055/	7440-50-8	7440-62-2	9-99-0552	7440-70-2	7782-49-2	1024-57-3	1031-07-8	1104-28-2	11096-82-5	11097-69-1
2	Meth/	Matrix		LW32/S																JC02/		2																						LH19/				
	Lab			PC 44121																PC 44121																												
	Sample	Date		09-FEB-92															04-FEB-92	09-FEB-92																												
		Depth		0.5															0.5																													
	Field	Sample No.		S5S0															S5SD1																													

^{* -} Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Field Sample No.

Site Site Type ID SKHL S5SD

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE

2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Meth/ Matrix CAS No. Analyte Description		Meas. Bool.	Conc.	Unit Meas.	Flag Codes	Data Quals
1141-10-5 12672-29-6 12672-11-2 309-00-2 319-85-7 319-86-8 33213-65-9 53469-21-9 53469-2				:	1	1 1 1	1 1
126/2-29-6 12674-11-2 309-00-2 319-84-6 319-86-8 339-86-8 33213-65-9 50-29-3 5103-71-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 544-8 8001-35-2 959-98-8 100-01-6 100-02-7 106-47-8 106-47-8 106-47-8 106-47-8	11141-16-5 PCB		ND	4.00 E -2	DUC	-	
319-85-7 319-86-8 319-86-8 319-86-8 33213-65-9 50-29-3 5103-71-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 52-55-9 72-55-9 72-55-9 72-55-9 72-55-9 72-55-9 76-44-8 8001-35-2 959-98-8 100-01-6 100-01-6 100-51-6 106-47-9 106-47-8 108-60-1 108-60-1			Q.	ш	990	<u>_</u>	
319-84-6 319-86-8 319-86-8 33213-65-9 50-29-3 5103-71-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-10-5 556-34-7 58-89-9 72-55-9 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-51-6 100-51-6 106-44-5 106-44-5 106-44-5 106-44-5 108-60-1 108-60-1	-		N Q	ш	990	-	
319-84-6 319-85-7 319-85-7 319-86-8 33213-65-9 50-29-3 5103-71-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 5366-34-7 58-89-9 72-55-9 72-55-9 72-55-9 72-55-9 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-57-6 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5				ш	บอด		
319-85-7 319-86-8 33213-65-9 50-29-3 5103-71-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-34-7 58-89-9 72-55-9 72-55-9 72-55-9 72-55-9 72-55-9 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-51-6 105-67-9 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 108-60-1		ohexane / alpha-	ר	2.50 E -3	nec		
319-85-7 319-86-8 33213-65-9 50-29-3 5103-71-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 72-56-8 72-56-8 72-56-8 72-56-8 72-56-8 72-56-8 72-56-9 7421-93-4 76-44-8 100-01-6 100-02-7 100-01-6 100-67-9 106-47-8 108-60-1 108-60-1		oride					
319-86-8 33213-65-9 50-29-3 5103-71-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 5246-34-3 72-54-8 72-54-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-02-7 106-47-8 106-47-8 108-60-1 108-60-1		beta-Hexachlorocyclohexane / beta-	<u></u>	5.40 E -3	990		
319-86-8 33213-65-9 50-29-3 5103-71-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 5246-7 72-56-8 72-56-8 72-56-8 72-56-8 72-56-9 72-56-8 72-56-9 72-56-9 72-57-1 100-01-6 100-01-6 100-01-6 100-51-6 106-67-9 106-47-8 108-60-1 108-60-1				ı)		
33213-65-9 50-29-3 5103-71-9 53469-21-9 53469-21-9 53469-21-9 5566-34-7 58-89-9 60-57-1 72-20-8 72-43-5 72-54-8 72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-51-6 105-67-9 106-44-5 106-44-5 106-44-5 108-60-1 108-60-1		phexane / delta-	1	2 28 5 -2	701		
33213-65-9 50-29-3 5103-71-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-21-9 53469-34-7 72-20-8 72-20-8 72-54-8 72-55-9 72-43-5 72-54-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-01-6 100-02-7 100-1-6 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5			-	J	200		
50-29-3 5103-71-9 53469-21-9 53464-70-5 5566-34-7 58-89-9 60-57-1 72-20-8 72-50-8 72-54-8 72-54-8 72-54-8 72-54-8 72-54-8 72-54-8 72-54-9 7421-93-4 7421-93-4 76-44-8 100-01-6 100-01-6 100-02-7 100-51-6 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-47-8 108-60-1		Fodosiil fan	<u>-</u>	u	001		
5103-71-9 53469-21-9 53494-70-5 5566-34-7 58-89-9 60-57-1 72-20-8 72-20-8 72-43-5 72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 106-67-9 106-47-8 106-47-8 106-47-8			; .	0 1 0 1 0	200		
5103-71-9 53469-21-9 53494-70-5 5566-34-7 58-89-9 60-57-1 72-20-8 72-43-5 72-54-8 72-55-9 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-02-7 106-67-9 106-44-5 106-44-5 106-44-5 106-44-5 106-46-7 108-60-1 108-60-1			-	Li Li	กาก		
534694-70-5 534694-70-5 5366-34-7 58-89-9 60-57-1 72-20-8 72-43-5 72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-51-6 105-67-9 106-44-5 106-44-5 106-44-5 108-60-1 108-60-1							
53494-70-5 53494-70-5 5546-34-7 58-89-9 60-57-1 72-20-8 72-54-8 72-54-8 72-55-9 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-61-6 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 106-44-5 108-60-1 108-60-1				ш	DOO		
5544-7 5566-34-7 58-89-9 60-57-1 72-20-8 72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-51-6 106-44-5 106-44-5 106-47-8 106-47-8 108-60-1			Q.	ш	ออก	-	
58-89-9 60-57-1 72-20-8 72-43-5 72-43-5 72-55-9 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-02-7 106-67-9 106-44-5 106-44-5 106-44-5 108-60-1 108-60-1				w	วรก		
58-89-9 60-57-1 72-20-8 72-43-5 72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-51-6 105-67-9 106-44-5 106-44-5 106-47-8 108-60-1 108-60-1	-		-1	ш	990		
60-57-1 72-20-8 72-43-5 72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-51-6 105-67-9 106-44-5 106-44-5 106-44-5 108-60-1 108-60-1		Lindane / gamma-Benzene hexachloride	5	2.00 F -2	9911		
60-57-1 72-20-8 72-43-5 72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 106-44-5 106-44-5 106-44-5 106-46-7 108-60-1 108-60-1				,	2		
72-20-8 72-43-5 72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-02-7 100-51-6 105-46-7 106-46-7 106-46-7 106-46-7 108-60-1	_		_	ш	2011		
72-43-5 72-54-8 72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-02-7 100-02-7 100-51-6 105-44-5 106-44-5 106-44-5 106-46-7 108-60-1 108-60-1			; <u>-</u>		200		
72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-02-7 100-51-6 105-67-9 106-44-5 106-44-5 106-46-7 108-60-1 108-60-1			<u>.</u> (u	บอด		
72-54-8 72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-51-6 105-67-9 106-44-5 106-46-7 108-60-1 108-60-1		-,1',	5	.211	ngg		
72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-02-7 100-51-6 105-67-9 106-44-5 106-46-7 108-60-1 108-60-1							
72-55-9 7421-93-4 76-44-8 8001-35-2 959-98-8 100-02-7 100-51-6 105-44-5 106-44-5 106-46-7 108-60-1 108-60-1		<u>.</u>	Ľ1	1.12 E -2	990		
7421-93-4 76-44-8 8001-35-2 959-98-8 100-02-7 100-51-6 105-67-9 106-44-5 106-44-5 106-46-7 108-60-1 108-60-1		hane / Rhoth*					
7421-93-4 76-44-8 8001-35-2 959-98-8 100-02-7 100-57-6 105-67-9 106-44-5 106-44-5 108-60-1 108-60-1			[]	1.42 F -2	991		
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76-44-8 8001-35-2 959-98-8 100-01-6 100-02-7 100-51-6 105-67-9 106-46-7 106-47-8 108-60-1			<u>-</u>	ш	0		
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959-98-8 100-01-6 100-02-7 105-67-9 106-44-5 106-46-7 106-46-7 108-60-1		•	O.	7.	990	- -	
797-90-6 100-01-6 100-02-7 100-51-6 105-67-9 106-44-5 106-47-8 108-60-1							
100-01-6 100-02-7 100-51-6 105-67-9 106-46-7 106-47-8 108-60-1	8-96-666	endosultan 1 / alpha-Endosultan		4.70 E -3	บอด		
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		/ 4-Methylphenol		.18	99n		
		ene	ב	.17	990		
			S	.33	9911	Ω	
		ironvi) ether	<u>-</u>		000	۷	
					חפנ		
		/ Phenylic acid / Phe*		·	חפר		
	111-44-4 Ris(2-chlorosthyl) other		<u> </u>	`			
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* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91 24-OCT-

Field Sample Sample Sample No. Depth Date S5SD1 0.5 09-FEB-92

Site ID

Site Type

Data Quals	:																																											
Flag Codes	:																				œ																							
Unit Meas.	1166	990	000	990	990	ngg	990	990	990	ngg	990	กรีด	990	990		ngg	nge	99N	99N	990	nog	nec		990		990	990	990		990	990	990	55N	990	990	990	nge	1166	990	991	1166	991	9911	;
Conc.	.17	.19	.22	.26	.17	.29	.28	.31	26.	17	.17	.25	.17	.73		.88	7.	.27	۲۷.	.58	1.7	.27		-84		.58	.51	.23	,	.2	1.1	.92	.17	1.8	.32	.27	.35	.5	.17	۲,	.17	17	28	1
Meas. Bool.		; <u>'</u>	_	רַ	_	LT	5	-	5	[1	: - -	L	=	בי			_	5			Q	ב				<u>_</u>		5	1	<u>-</u>	<u>-</u>	LT		LT	LT	11	-17	5	; <u>'</u>	; '	i	; =	; =	I
Analyte Description	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,D]pyrene	Benzo[b]fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzo[a]pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,5-Dichlorobenzene	Benzo [a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-chloro-5-m²	Z,o-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9H-Fluorene	Hexachlorobutadiene / Hexachloro-1.3-	butadiene
CAS No.	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		534-52-1	1	541-75-1	56-55-5	29-20-7	()()	7-07-009	7-40-170	65-85-0	67-72-1	4-24-22	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3	
Meth/ Matrix																																												
Lab Anly. No.	PC 44121																																											

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91 24-0CT-

24-001-94

Sample
Depth Date
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0.5 09-FEB-92

Depth

Field Sampte No.

Site Site Type ID SKHL SSSD

Data Quals	:																																												
Flag Codes	1 1 1 1							œ							Ω	ź		œ	ı v	·	, u	, ,	, v	v	n u	, (ne	-	n	n	s o	S	Ω	S	s	S	v	S	v	, v	٠ 4	, v	٠ ،	n c	n
Unit Meas.	 000	990	ออก	99n	990	990	990	990	990	090	ยยก	991	999	2	100	991	990	991	99N	901	9 2	90	995	001	9 00 I	9 5	ากก	ם מפר	חמפ	กกก	99 n	nee	990	990	nge	990	ngg	990	1166	991	0.01	900	201	อกก	กทก
Conc.	. 48	.3	.36	.26	.17	.17	.33	99.	.17	.32	.17	76	6		1.7	17	~	344	.515	787	1.031	772	1.203	172	2/1.	7/2	570 C	20.7	774	# i	/89.	cl.c.	.344	.515	.344	.515	.859	.687	1.718	3.436	7//2	515	71.7	250	٧,٠٠٠
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Analyte Description	Pentachlorophenol	2,4,6-Trichlorophenol	Z-Nitroanitine	Z-N1trophenot	Naphthalene / Tar camphor	Z-Methylnaphthalene	Z-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichtorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether		Unknown compound 536		Unknown compound 546		compound	Compound				Hormon composited 504	Haknown company 507		Unknown compound 503	combonia	•	compound	compound	compound	Unknown compound 606	Unknown compound 608	Unknown compound 609	compound		punoduoo		punoduos	n modinos
CAS No.	87-86-5	88-06-2	4-4-00	20-13-3	5-07-16	91-57-6	7-28-16	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		2-60-66																														
Meth/ Matrix	LM30/																																												
Lab Anly. No.	PC 44121																																												

^{* -} Analyte Description has been truncated. See Data Dictionary

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990 000

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Field Sample No.

Site ID

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE

24-0CT-94	
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: 01-JAN-91	
e Range: 0	
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e s	:																																																
Data Quals																																																	
Flag Codes	:	s	۵	S	y:	· C	, (n	S	S	S	·	,																																				
Unit Meas.		OGG	990	990	990	990		กอก	99N	ngg	990	991	990	990	990		กเร	1	990	990		990	990	9911		9	000		990		990		990	9911	950	997	991	200	กอก	990	990	990	990	DBO	990	990	990	990	
Conc.	† † † † † †	.172	.515	.687	344	515	2007	CD2.	-344	.344	.172	777		יין אר ה		ı	5.0 E -5		2.7 E -5	u		ш	ш	5.7 F -2	ı	L	2.5 E -5		2.5 E -3		2.5 E -3		3.1 E -3	1.8 E -2		u		9 1		ш.	ш	3.0 E -3	ш	ш	ш	ш	2.5 E -3	w	
Meas. Bool.	1												-	; <u>-</u>	-		<u>.</u>		<u>.</u> :	_			11	<u> </u>	;		_		-1		ב			-	i	_	; <u>;-</u>	- + - L	_ ;	_	_	۲	רו	17	ר		11	17	
Analyte Description		Unknown compound 620		Unknown compound 624	Unknown compound 629				Unknown compound 648	Unknown compound 651			Ethylbanapaa	Styrene / Ethenylhepress / Styrel /	Styles / Edicily Delikelle / Styles /	otyrotene / Cilinamene	Cis-1, s-Dichloropropylene / Cis-1, s-	nicht opropene	1,2-01chloroethane	Metnyl Isobutyl Ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	Totalot on on one that e	letrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Renzene	1 1 1 Trichlosochono		Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disutfide	Bromoform	Bromodichtoromethane	1,1-Dichloroethane	
CAS No.	:												100-61-6	100-42-5	2	10061 01 5	6-10-10001		107-06-2 108-40-4	1-01-901		108-88-3	108-90-7	124-48-1		127-10-7	5-91-171		156-59-2		156-60-5		56-23-5	591-78-6	67-64-1	67-66-3	21-63-2	71-55-6	0.77	74-83-4	(4-8/-5	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4
Meth/ Matrix	:	LM30/											1 M33 /	1																																			
Lab Lab Anly. No.		PC 44121																																															
Sample Date	:	09-FEB-92																																															
Depth	:	0.5																																															
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^{* -} Analyte Description has been truncated. See Data Dictionary

Site Site Type ID SKHL SSSD

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91 24-0CT-

24-001-94

Data	Quals	:																																										
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Unit	Meas.	9911	3	990	99n	990	990	Ď		990		990	บดด	บยต	990		99N	990		990	DUCC		990	٠	nec	000		990	990	nge	990	บยด	DOG	900		990	990		990	950		UGG	9311	Ď
	Conc.	3.2 F -2			ш	ш	2.5 E -3	ш		1.2 E -2			2.5 E -3		52:		.251	.51		667.	1.27		2.5		٠.	2.5		.505	.251	.25	.249	.245		.25		.251	.51		667.	1.27		2.5	ır	:
Meas.	Bool.	: 5	i	Ş	_		ב	ב		5		ב	ב	Q	5		5	ב		5	5		5		ב	ב		_	ר	ב	11	-	QN Q	ב		=	=		ב	ב		רו	<u>-</u>	;
	Analyte Description	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	<pre>Trichloroethylene /Trichloroethene /</pre>	Ethinyl trichloride /T*		Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	Nitrite, nitrate - nonspecific	2,4,6-Irinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Nitrite, nitrate - nonspecific	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	ti miti ate 2,6-Dinitrotoluene	
	CAS NO.	75-35-4		72-69-5	78-87-5	78-93-3	29-00-5	79-01-6		79-34-5				14797-55-8	118-96-7		121-14-2	121-82-4		2691-41-0	4/9-45-8		22-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	14797-55-8	118-96-7		121-14-2	121-82-4		2691-41-0	4/9-42-8		55-63-0	606-20-2	78-11-5
Meth/	Matrix	LM33/												S/ 66	LW32/S																		s/ 66	LW32/S										
Lab	Lab Anty. NO.	44121												58890																		;	38903											
4	רמם ו												;	ر د																			ည္											
Sample	יייייי	09-FEB-92											100	U5-FEB-92																			U.5 U5-FEB-92											
Denth	1	0.5												o. O.																		,	o.5											
Field Sample No	· Otto Daniel	S5SD1											14001	NBSD I																		6	NBSDZ											

STRM NBSD1

NBSD2

^{* -} Analyte Description has been truncated. See Data Dictionary

Site Site
Type ID

NBSD3

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91

24-0CT-94

Data Quals	i 1																																												
Flag Codes	!						-																				۲	-														-	-		
Unit Meas.	ngg	UGG	99n	990	990	990	990	990		990	990		OGG	990		990		OGG	990		1166	990	9911	200	991	200	2	200	500	2 2	กอด	990	อก	Dec	ออก	990	990	990	990	991	99	900	000	200	2
Conc.	2.5	.505	.251	57.	647.	.245	-	.25		.251	.51		667.	1.27		2.5		٥.	2.5		.505	.251	25	676	576	3680	2007	0 20 5 2	4	10:-	0220	41000	70	138	009	7	7.5	142	50	12.5	82.0	12.7	2.27	578	5
Meas. Bool.	11		5!	<u>.</u> :	<u>_</u>	<u>_</u>	읒	<u>_</u>		=	<u>_</u>		5	_		_		ב	5		_	: 5	_	: <u>-</u>	i <u>-</u>	<u>;</u>	9	<u> </u>	; <u>:</u>	5				_		=	5	5		i <u>-</u>	: <u>-</u>	; §	Ē		
Analyte Description	PETN / Pentaerythritol tetranitrate /	2-Nitrotoluene	3-Nitrotoluene	1,5,5-Irinitropenzene	1, 5-Dinitropenzene		Nitrite, nitrate - nonspecific	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1.3.5-Trinitrobenzene	1.3-Dinitrobenzene	4-Nitrotoluene	Total organic carbon	Withito nitrate - nonchorific	Money III thate - nonspecting	Silvo	SI (VEI)		Lou	read .	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thatlium	Antimony	4 rs opi c		Ballon Recviling	
CAS No.	78-11-5	88-72-2	99-08-1	99-55-4	0-69-66	0-66-66	14797-55-8	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	7-52-66	0-65-0	U-66-66		1707.55.R	0-CC-16141	7.70-07/2	5-00-06/2	7-06-02/2	0-69-667	1-24-4547	1439-95-4	2439-96-5	7439-98-7	7440-02-0	2-60-0552	7440-23-5	7440-28-0	0-98-0772	288-0772	7//0-20-2	7-17-0772	
Meth/ Matrix	LW32/S						s/ 66	LW32/S																		00 /8	00	1806/3	2/007	101/10	2014/3														
Lab Lab Anly. No.	PC 38903						PC 40835																			07525 34																			
Sample Date	05-FEB-92						06-FEB-92																			03-FFB-92																			
Depth	0.5						0.5																				•																		
Field Sample No.	NBSD2						NBSD3																			C10c01																			

S10SD1

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91

76-UCT-96

	Data Quals	:	~ ~~ ~~ ~~ ~~ ;	*****
	Flag Codes	:		⊢-
	Unit Meas.	990 990 990 990 990	990 990 990 990 990 990	990 990 990 990 990 990 990 990 990 990
	Conc.	. 427 34.3 34.3 17.1 7.6 74.8 32.4 230 12.4	.25 .499 .1.27 2.5 2.5 2.5	251 249 245 2.07 8.70 E -2 1.01 3760 6300 10 138 580 4 7.5 142 50 12.5 12.7 45
	Meas. Bool.	5 55	5 55 55 5 55 5	פללללל לל לל לללו
Date Range: 01-JAN-91 24-OCT-94	Analyte Description	Cadmium Chromium Cobalt Copper Vanadium Zinc Calcium Selenium Cyanide	<pre>2,4,0-Irinitrotoluene / alpha- Irinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1,3,5- trinitro-1,3,5-triazine * Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate 2,6-Dinitrotoluene PETN / Pentaerythritol tetranitrate / 2,2-Bis[(nitrooxy)me* 2,4-bis[(nitrooxy)me*</pre>	3-Nitrotoluene 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 4-Nitrotoluene Nitrite, nitrate - nonspecific Mercury Silver Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Sodium Thallium Antimony Arsenic Barium Beryllium
	CAS No.	7440-43-9 7440-43-9 7440-48-4 7440-62-2 7440-66-6 7440-60-2 7782-49-2 57-12-5	121-14-2 121-82-4 2691-41-0 479-45-8 55-63-0 606-20-2 78-11-5	99-08-1 99-35-4 99-35-4 99-65-0 99-99-0 7439-97-6 7439-97-6 7439-90-5 7439-92-1 7439-96-5 7439-96-5 7439-96-5 7440-02-0 7440-03-0 7440-23-5 7440-23-5 7440-39-3
Sampling	Meth/ Matrix	JS14/S KY04/	C / 2CM	99 /s J806/ J502/s J514/S
	Lab Anly. No.	37540		37567
	Lab	20		٦ 2
	Sample Date	03-FEB-92		03-FEB-92
	Depth	0.5		0.5
	Field Sample No.	\$10sD1		\$10SD2
	å . :	-		20
	Site Site Type ID	STRM S10SD1		\$10SD2

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91 24-OCT-

Data Quats	2									¥		¥	¥		¥	¥		74	4	2	۷ ک	۷		¥	¥	¥	×	¥																		
flag Codes	; ; ; 1																												-															-		
Unit Meas.	990	990	990	300	300	200	ากเ	nec	990	nec		990	990		0 0 0	UGG		9911		0011	BB0 1	200	;	บอด	9 90	990	990	990	000	000	000	000	ngc	990	9 9 0	nec	990	ngc	9911	1100	000	990	990	990	000	990
Conc.	.427	6.12	5.84	5.58 12 E	ردرا	6.14	600	12.4	1.22	52:		.251	.51		667.	1.27		2.5	1	Ľ	7.0	7:3		.505	.251	.25	.249	.245	1	8.70 E -2	1.01	3550	15000	16.3	138	1400	7	7.5	142	0.5	, c	(.2)	82.9	12.7	2.1.2	.682
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Analyte Description		Chromium	Cobalt	Vanadium	2 inc	Z IIIC	calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1.2.3-Propanetriol	trinitrate	2 A-Dinitrotolilene	PETN / Dentaerythritol tetrapitrate /		C, C-BISL(FILLTOOXY)IIIE	Z-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene		Nitrite, nitrate - nonspecific		Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodiem	Thallia		Antimony	Arsenic	Barium	Beryllium
CAS No.	7440-43-9	7440-47-3	7-48-4	2,40-20-6	7//0-66-6	7//0-70-0	7-01-0551	7-65-78/	5/-12-5	118-96-7	:	121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0	}	6-06-504	78-11-5	:	4 44	2-7/-88	99-08-1	99-35-4	99-65-0	0-66-66	14797-55-8	7439-97-6	7440-22-4	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2-60-0552	5-20-0772	0-82-0772	0 77 0 / /2	0-00-055	7-85-0+4/	7:10	7440-41-7
Meth/ Matrix	JS14/S								KY04/	LW32/S																			s/ 66	7806/	JC02/S	JS14/S														
Lab Lab Anly. No.	PC 37567																												PC 37478																	
Sample Depth Date	0																												0.5 04-FEB-92																	
Field Sample No. Der	į																												S11SD1																	
Site Site Type ID	S																												S11SD1																	

^{* -} Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE

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	Unit Meas.	1 1	nee	990	nag	990	ngg	ngg	ngg	ngg	990	990		nec	neg		nee	nge		DDN
	Conc.		.427	12.8	21.8	67.7	30.4	19.8	121	12.4	1.22	.25		.251	.51		667.	1.27		2.5
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01-JAN-91 24-OCT-94	Analyte Description		Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol
ig Date Range: 01-JAN-91	CAS No.			2440-42-3	7440-48-4	2440-50-8	7440-62-2	9-99-0552	7440-70-2			118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0
Sampling	Meth/ Matrix		JS14/S								KY04/	LW32/S								
	Lab Anly. No. P		PC 37478																	
	Sample Date																			
	Depth	:	0.5																	
	Field Sample No.		S11SD1																	
	Site ID	:	S11SD1																	
	Site Type		STRM																	

1.22 82.9 8.70 E -2 5060 17000 24.8 138 .505 .251 .25 .249 .245 .245 근윤근윤 こここここ Nitrite, nitrate - nonspecific 3-Nitrotoluene 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene Total organic carbon 4-Nitrotoluene 2-Nitrotoluene 0-66-66 88-72-2 99-08-1 99-35-4 s \ 88 37699 PC 0.5 04-FEB-92 S11SD2 S11SD2

ニコ

2,6-Dinitrotoluene
PEIN / Pentaerythritol tetranitrate /
2,2-Bis[(nitrooxy)me*

trinitrate

606-20-2 78-11-5

Manganese Molybdenum Magnesium Mercury Aluminum Cyanide Antimony Iron Lead 14797-55-8 57-12-5 7440-36-0 7439-97-6 7429-90-5 7439-89-6 7439-92-1 7439-95-4 7439-96-5 7440-02-0 7440-03-5 7440-23-5 7440-28-0 7440-38-2 JB06/ JS14/S

* - Analyte Description has been truncated. See Data Dictionary

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7.5 142 50 12.5 12.7 26.5

94444

Nickel Potassium Sodium

Thallium Arsenic Barium

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Final Documentation Appendix Report Installation :Anniston AD, AL (AN)

Site Site
Type ID

	2/- ULI - 0/
File Type: CSE	Compline Date Dance: 01: 18N-01

Data Quals	t									¥		¥	¥		¥	¥		¥		¥	¥		¥	7	۷ ک	۷ ک	۷ ۷	۷ -	ن						×		×	×		×	×		¥		¥
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Analyte Description	Beryllium	Cadmium		Copper	Vanadium	יונטוספווא	71UC	Calcium	Selenium	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1 3 5-Trinitrohenzene	1 3-Dinitrohenzene	A Mittage Library	t-with orotaene		Nitrite, nitrate - nonspecific	Antimony	Mercury	Silver	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene
CAS No.		7440-43-9	C-/4-044/	7,440-46-8	2,770-62-2	7-70-044/	0-00-055/	7440-70-2	7782-49-2	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	7-52-66	0-45-0	0-00-00	57-12-5	(-21-16	14/9/-55-8	7440-36-0	7439-97-6	7440-25-4	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2
Meth/ Matrix										LW32/S																		,	٠,		_ ;			KY04/	LW32/S										
Lab Anly. No.																												276000	טיייטיני פק	PC 37702															
Sample Depth Date	0.5 04-FEB-92																													U.5 U4-FEB-92															
	s11sp2																													STISDR															

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID

S11SDR

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91

24-0CT-94

Data Quals	1 20	¥	: ×	×	¥	¥																																					
Flag Codes	1																-												-													_	
Unit Meas.	000	000	990	99N	990	99N	99N	990	990	NGG	990	990	990	99N	99n	990	990 000	250	990	950	990	99N	990	ngg	99N	99 i	990	990	990	990	990	990	990	000	990	990	990	990	990	990	990	99N	990
Conc.	2.5	.505	.25	.25	.249	.245	2800	00096	30.3	138	1000	7 7	12.5	142	δ.	5.51	12.7	- (1.18	774.	55.4	35.2	8.13	88.4	49.3	144	4.21	36.3	1	8.70 E -2	1.01	1360	30000	4.02	138	290	7	1	142	20	12.5	12.7	37.5
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. Analyte Description	5 PETN / Pentaerythritol tetranitrate /														8-0 The 1 is		0-7 Beriim		1-/ Beryllim 3-0 Codmi:m							0-2 calcium				2-7 refruity									_	• .			9-5 Barium
-	78-11-5	88-72-2	99-08-1	99-35-4	99-62-			4-34-84-6	7459-92-1	4-404/	7/20-08-7	7-98-39-7	0-20-0772	7-40-044/	7//0-28-0	7//0-28-2	2-05-044/	7//0-//-	0-27-077/2	2-27-07/2	7-74-0447	\$-05-055/	2,70-0772	0-0447	7//0-70-0	7-01-0441	700	0.25.0772					7/30-02-1	7/30-05-/	7/30-05/7	7/10	7-84-6647	7440-02-0	2-60-055/	7440-25-5	7440-28-0	7440-58-2	7440-5
Meth/ Matrix	LW32/S						JS14/S																				00	3 8	1 67	2/0000	1514/5												
Lab Lab Anly. No.	PC 37702						PC 37702																				PC 36625																
Sample Date	0						U4-FEB-92																				0.5 01-FFR-92	3															
Depth	0.5					c	0.0																				0.5	5															
Field Sample No.	S11SDR					01110	SUSI IS																				S17SD3																

S17SD3

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91 24-0CT-

24-0CT-94

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Meas.	990	DBU	000	990	990	DBU	UGG	990	990	990	990		990	990		990	990		990		990	990		990	990	990	990	990	990	990	-5-	99N	990	990	990	990	990	990	990	990	990	990	9911	
Conc.	.538	868	22.8	20.4	9.76	31.4	105	109	12.4	1.22	.25		.251	.51		667.	1.27		2.5		ī.	2.5		.505	.251	છ.	.249	.245	110	82.9	8.70 E	1.01	3220	560 00	19.4	138	450	4	16	142	20	12.5	12.7	7 7 6
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Analyte Description	Beryllium	Cadmica	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Cvanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	itol tetranitrate	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Total petroleum hydrocarbons	Antimony	Mercury	Silver	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Sodium	Thallium	Arsenic	
CAS NO.	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	9-99-0552	7440-70-2	7782-49-2	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66					-		7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	7440-09-7	7440-23-5	7440-28-0	7440-38-2	7 02 07 /2
٠.										KY04/S	LW32/S																		s/ 00	/ 66	3806/S	JC02/S	JS14/S											
Lab Anty. No.	PC 36625																												PC 36633															
Date	01-FEB-92																												5 01-FEB-92															
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Sample No	S17SD3																												S17SD4															
	. Depth Date Lab Anly. No. Matrix CAS No. Ahalyte Description Bool. Conc. Meas. Codes	Depth Date Lab Anly. No. Matrix LAS No. Analyte Description Bool. Conc. Meas. Codes 0.5 0.5 0.1-FEB-92 PC 36625 JS14/S 7440-41-7 Bervllium .538 UGG	Depth Date Lab Anly. No. Matrix LAS No. Analyte Description Bool. Conc. Meas. Codes	Depth Date Lab Anly. No. Matrix LAS No. Analyte Description Bool. Conc. Meas. Codes	Depth Date Lab Anly. No. Matrix LAS No. Analyte Description Bool. Conc. Meas. Codes	Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes	Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes	Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes	Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes 10.5 01-FEB-92 PC 36625 JS14/S 7440-41-7 Beryllium S440-47-3 Chromium Lab Anly. No. Analyte Description Local Lab Anly. No. Analyte Description Local Lab Anly. No. Analyte Description Local Lab Anly. No. Analyte Description Local Lab Anlyte Description Lab Anlyte Lab Anlyte Description Lab Anny Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyte Description Lab Anlyt	Depth Date Lab Anly. No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Lodes 10.5 01-FEB-92 PC 36625 JS14/S 7440-41-7 Beryllium S2.8 UGG 7440-47-3 Chromium 22.8 UGG 7440-48-4 Cobalt 7440-68-2 Vanadium S1.4 UGG 7440-66-6 Zinc LT 109 UGG 7782-49-2 Selenium LT 12.4 UGG	Depth Date Lab Anly. No. Matrix LAS No. Analyte Description Bool. Conc. Meas. Lodes 10.5 Ol-FEB-92 PC 36625 JS14/S 7440-47-3 Chromium A440-47-3 Chromium A440-47-3 Chromium A440-48-4 Cobalt A440-48-6 Copper A440-62-2 Vanadium A440-62-2 Vanadium A440-66-6 Zinc LT 109 UGG A440-70-2 Calcium LT 12.4 UGG A440-76-5 Selenium LT 1.2.2 UGG	Depth Date Lab Anly. No. Matrix LAS No. Analyte Description Bool. Conc. Meas. Lodes 10.5 Ol-FEB-92 PC 36625 JS14/S 7440-47-3 Chromium 7440-47-3 Chromium 7440-47-3 Chromium 7440-48-4 Cobalt 7440-48-6 Copper 7440-62-2 Vanadium 7440-66-6 Zinc 105 T440-66-6 Zinc 105 T440-66-6 Zinc 105 T440-66-6 Zinc 105 T440-66-6 Zinc 106 T440-66-6 Zinc 117 12.4 UGG 117 1.2.2 UGG 118-96-7 2,4,6-Trinitrotoluene / alpha- LT 1.22 UGG 118-96-7 2,4,6-Trinitrotoluene / alpha- LT 1.25 UGG	Depth Date Lab Anly. No. Matrix LAS No. Analyte Description Bool. Conc. Meas. Lodes 10.5 Ol-FEB-92 PC 36625 JS14/S 7440-47-3 Cadmium 7440-47-3 Chromium 7440-47-3 Chromium 7440-50-8 Copper 7440-50-8 Copper 7440-50-8 Copper 7440-50-2 Vanadium 7440-66-6 Zinc 7440-70-2 Calcium 7440-70-2 Calcium 7440-70-2 Cyalcium 7480-48-7 Z,4,6-Trinitrotoluene / alpha- 11 1.22 UGG 18.32/S 118-96-7 Trinitrotoluene	Depth Date Lab Anly, No. Marrix CAS No. Analyte Description Bool. Conc. Meas. Codes 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Depth Date Lab Anly. No. Marrix CAS No. Analyte Description Gool. Conc. Meas. Codes (1.5 of FEB-92 PC 36625 JS14/S 7440-41-7 Beryllium	Depth Date Lab Anly. No. Matrix LAS No. Analyte Description 1.5 01-FEB-92 PC 36625 JS14/S 7440-41-7 Beryllium 2.5 01-FEB-92 PC 36625 JS14/S 7440-41-7 Beryllium 2.6 0.5 01-FEB-92 PC 36625 JS14/S 7440-41-7 Beryllium 2.7 440-43-9 Cadmium 2.8 0.66 2.4 6-6-2 Vanadium 2.8 0.66 2.4 6-6-2 Vanadium 2.8 0.66 2.4 6-7 12-5 Cyanide 2.4 6-7 Frinitrotoluene / alpha- 2.5 118-96-7 2,4 6-1 Frinitrotoluene 2.5 118-96-7 2,4 6-1 Frinitrotoluene 2.7 12-14-2 2,4-0 Initrotoluene 2.7 11 1.2 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Depth Date Lab Anly, No. Matrix CAS No. Analyte Description Bool. Conc. Meas. Codes 1.5 01-FEB-92 PC 36625 JS14/5 7440-41-7 Beryllium	Depth Date tab Anly, No. Marily CAS No. Analyte Description Boot. Conc. Meas. 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* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91

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Date Range: 01-JAN-91 24-OCT-94	Analyte Description	E	Cadenum	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	Z,4-Dinitrotoluene	<pre>kDX / Lyclonite / Hexahydro-1,3,5- trinitro-1 2 5-+rioring *</pre>	Cvelototramothylopototramita	Tetrol of N-Methyl-N 2 7 4-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /		2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Antimony	Mercury	Silver	Atuminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Soulding	Inallium	Ration	Bervilium	
	CAS No.	7440-41-7	7440-45-9	7440-48-4	7440-50-8	7440-62-2	9-99-0552	7440-70-2	7782-49-2	57-12-5	118-96-7	171 17 2	121-14-2	4-70-171	2691-41-U	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-62-0	0-66-66	7440-36-0	7439-97-6	7440-22-4	7429-90-5	7439-89-6	7459-92-1	7459-95-4	7459-96-5	7-88-74	0-70-0447	7-60-0447	7.4.0 - 29 - 0	0-07-044/	2-86-0552	7440-41-7	
Sampling	Meth/ Matrix										LW32/S																				JS14/S												
	Lab Anly. No.	PC 36633																										PC 36919															
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^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSE Sampling Date Range: 01-JAN-91

24-001-94

Sample Date

Field Sample No. Depth S26SD1 0.5 0

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Analyte Description	Cachium	Chromium	Cobalt	Соррег	Vanadium	Zinc	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1.3-Dinitrobenzene	4-Nitrotoluene
CAS No.	7440-43-9	2440-47-3	7440-48-4	7440-50-8	7440-62-2	9-99-055/	7440-70-2	7782-49-2	57-12-5	118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	99-65-0	0-66-66
Meth/ Matrix	JS14/S								KY04/S	LW32/S																	
Lab Anly. No.	PC 36919																										

^{**} End of Report - 748 Records Found **

Appendix I
Surface Water Data

Site Site Type ID SKHL S5SW1

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSW Sampling Date Range: 01-JAN-91

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Analyte Description	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2.4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzofahilberylene	Indenof1 2 3-f Dinyrene	Renzofhlflioranthene / 2 /-	Benzofluoranthene	Flioranthone			Acenaphicny tene	ciii ysene	Benzolaj pyrene	Z,4-Dınıtrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Ulbenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo [a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Kexachloroethane
CAS No.	100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-0	208-06-B	218-01-0	E0 22 0	0.70-00	C-97-10	5-07-66		1-76-566	4	541-75-1	56-55-5	29-20-7		606-20-2	621-64-7	0626	67-72-1
Meth/ Matrix	UM06/																																									•	•		•
Lab Lab Anly. No.	PC 44105																																												
Sample Date	09-FEB-92																																												
Depth	0.0																																												
Field Sample No.	S5SW																																												

^{* -} Analyte Description has been truncated. See Data Dictionary

Field Sample No. 8

Site Site Type ID SKHL S5SW1

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSW Sampling Date Range: 01-JAN-91 24-0CI-

24-001-94

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Unit Meas.	1911	- =	กิดโ	UGL	UGL	UGL	UGL	ner	i ig	UGL		UGL	UGL	UGL	UGI.	ner.	NGL	NGL	NGL	ngr	NGL	NGL	UGL	UGL		NGL	UGL	NGL	ner	ner	i !	UGI.		UGI.	NGL		UGL	UGL	UGL		UGL	<u> </u>	Jan Oler	
Conc.	101	<u></u>	19	10	10	10	10	10	10	10		50	10	50	10	10	10	10	20	10	10	10	20	10		20	10	10	ī	5		5		2	10		2	2	2		2	u	n	
Meas. Bool.	- Q	9	2	g	9	윤	g	9	2	9		읒	2	읒	2	읒	2	2	2	2	2	2	2	S		Q	9	S	S	2		ş		2	S		S	R	용		9	9	Ş	
Analyte Description	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9H-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	I, Z-Dichloroethane	Methyl Isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	ris-1 2-Dichlorosthylens / cis-1 2-	Dichloroethene	
CAS No.	7-47-4	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3	;	87-86-5	88-06-2	7-72-88	88-75-5	91-20-3	91-57-6	71-58-7	91-94-1	7-48-7	95-50-1	95-57-8	95-95-4	98-95-3		2-60-66			100-41-4	100-42-5		10061-01-5	107 07 3	7-90-701	1-01-801	1 00	108-88-5	108-90-7	124-48-1		127-18-4	156-59-2	1	
Meth/ Matrix	/90MN																												/ 66															
Lab Anly. No.	PC 44105																												2 44105															
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Sample th Date	Ō																												0.0 09-FEB-92															
Depth	. 0																												0															

S5SW1

* • Analyte Description has been truncated. See Data Dictionary

Field Sample No.

Site Site Type ID SKHL S5SW1

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSW Sampling Date Range: 01-JAN-91

Data Quals	; ; ; ;																																											
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Unit Meas.	: 5	9	NGL	NGL	ngr	Ner	ner	ner	NGL	UGL	lgh	ngr	UGF	ner	UGL	UGL	NGL	NGL		ngr	UGŁ	UGF	ายก	ner		ngr		UGL	NGL	UGL	NGL	ngr	NGL	NGL	UGL	NGL	ner	ner	NGL	UGL	ner	ngr N	NGL	ngr N
Conc.		`	5	10	10	2	2	2	10	10	10	10	2	2	2	2	2	2		2	2	10	ıς	2		2		2	2	72.	1.26	2.5	6.01	14.9	111	481	100	12200	1010	30.9	63.1	20200	12.5	2810
Meas. Bool.	- S)	웊	8	2	웆	2	웆	웊	9	2	2	웊	2	2	2	2	욮		S	S	용	9	S		S		용	읖	_	ב	-1	_	1			_			ב	5		_	
Analyte Description	trans-1.2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	Mercury	Lead	Thallium	Arsenic	Selenium	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silver	Sodium
CAS NO.	156-60-5		56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5				2439-97-6	7439-92-1	7440-28-0	7440-38-2	7782-49-2	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	7-40-05-7	7,10 22 6	6-62-044/
Meth/ Matrix	/ 66																													SB07/	SD08/			!	SS15/									
Lab Lab Anly. No.	PC 44105																																											
Sample Date	09-FEB-92																																											
. Depth	0.0																																											

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID SKHL S5SW1

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSW Sampling Date Range: 01-JAN-91 24-0CI-

Data Quals	1 1 1																																							
Flag Codes	:													۵	2 م	: 02	: ~	~	~											~										
Unit Meas.	ngr	ತ ಕ	ఠ	UGL	ug.	Jg Ng	ng.	ner	UGL	년 1	털 :	당 :	150	d 2	9 5	i 9	함	UGL	병	UGL	UGL		ngr	-	UGL	-	100	מר	ngi	UGL	UGL	UGL	UGL		NGL	UGL	UGL	:	กิดเ	
Conc.	100	37.1 188	2.5	5	15	52	50	07		1.3 E 5	5	L	0°00 0°00 0°00 0°00	u	· -	-	-	-	-	ш	4.34 E -2		1.09 E -2	ı	7- 3 89.4	ш	2 1 20 5 2	ı	2.02 E -2			ш	4.29 E -2		3.21 E -2	ш	.267		8.48 E -2	
Meas. Bool.	<u> </u>		=	5		5	5				בׁ!	<u></u> ::	<u></u> -	. <u>s</u>	£ 5	2	2	욮	용	ב	_		=		5	-	; ;	;	-	2		=	<u> </u>		_	Ξ	ב		5	
Analyte Description	Thatlium	Antimony Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadıum	Zinc	Calcium	Selenium	Cyanide	Repractitor epoxiae Endoculfan sulfate		PCB 1260		PCB 1232	PCB 1248	PCB 1016	Aldrin	alpha-Hexachlorocyclohexane / alpha-	Benzene hexachloride	beta-Hexachlorocyclohexane / beta-	Benzene hexachloride	Renzene hexachloride Renzene hexachloride	Endocriffen 11 / hote-Endocriffen	2 2-Richard Conham 1-1 1-1	trichloroethane	alpha-Chlordane	PCB 1242	Endrin ketone	gamma-Chlordane	Lindane / gamma-Benzene hexachloride	/ gamma-Hexachlorocyc*	Dieldrin	Endrin	Methoxychlor / Methoxy-DDT / 1,1'-	(2,2,2-Irichloroethylide*	ppub///i,i-Dicmioro-2,z-bis(p- chlorophenyl)ethane//Rhoth*	
CAS No.	7440-28-0	7440-36-0	7440-41-7	7440-43-9	7440-47-5	7440-48-4	7440-50-8	7-79-044/	7440-66-6	7-07-044/	7-64-7911	102/-12-3	1031-07-8	1104-28-2	11096-82-5	11097-69-1	11141-16-5	12672-29-6	12674-11-2	309-00-2	319-84-6	!	319-85-7	210-84-8	0-90-616	33213-65-0	50-20-3	ì	5103-71-9	53469-21-9	53494-70-5	5566-34-7	58-89-9		60-57-1	72-20-8	72-43-5	2	0-46-7/	72-55-9
Meth/ Matrix	ss15/										, 2001	1103/	/1700																											
Lab Anly. No.	PC 44105																																							
Sample Date	09-FEB-92																																							
Depth	0.0																																							
Field Sample No.	S5SW1																																							

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSW Sampling Date Range: 01-JAN-91

24-0CI-94

Heptachlor 141,45,6,7,8,8	Matrix CAS No. UH21/ 72-55-9		PC 44105 UF
Toxaphene	7421-93-	7421-93-4 76-44-8	7421-93-
Cyclotetramethyleneteranitrane 17 8.56 E - 3 Z,4,6-Tinitrotoluene alpha- 17 321 Z,4-Dinitrotoluene 2,4-Dinitrotoluene 1,2-Dinitrotoluene 1,3-Dinitrotoluene 1,3-Dinitrobenzene	3001-35- 350-08-6	8001-35-2	8001-35-
PROX / Cyclonite / Hexahydro-1,3,5- LT .321 RDX / Cyclonite / Hexahydro-1,3,5- LT .321 RDX / Cyclonite / Hexahydro-1,3,5- LT .321 Cyclotetramethylenetetranitramine LT .2.29 Tetryl / N-Methyl-N,2,4,6- LT .2.3 Itrinitrate 1,2,3-Propanetriol LT .3.2 Z,2-Bis(Initrobenzene LT .646 B-Nitrotoluene LT .646 3-Nitrotoluene LT .339 Nitrite, nitrate - nonspecific LT .339 LA-Nitrotoluene LT .339 Nitritonitrooluene LT .339 Nitritonitrooluene LT .339 LA-Nitrotoluene LT .339 LA-Nitrotoluene LT .339 LA-Nitrotoluene LT .339 LT-Nintrooluene LT .339 Nitritonitrooluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 LT-Nintrotoluene LT .339 Nitroslycerine / 1,2,3-Propanetriol LT .300 Z,2-Bis(Initrotoluene LT .339 Nitrotoluene LT .339 Nitrotoluene LT .339 Z-Bis(Initrotoluene LT .339 Nitrotoluene LT .3	118-96-7	UW35/ 118-96-7	
RDX / Cyclonite / Hexahydro-1,3,5- LT .653 trinitro-1,3,5-triazine * Cyclotetramethylenettranitramine LT .2.9 Tetryl / N-Wethyl-N.2,4,6- LT .2.9 Tetryl / N-Wethyl-N.2,2,6- LT .2.9 Tetrinitrate / 1,2,3-Propanetriol LT .64 ELN / Pentaerythritol tetranitrate / LT .646 Z,6-Dinitrotoluene LT .646 Z-Nitrotoluene LT .339 Nitrotoluene LT .339 1,3,5-Trinitrobenzene LT .339 1,3,5-Trinitrotoluene / alpha- LT .339 Trinitrotoluene / Alpha- LT .339 Trinitrotoluene / LT .339 Trinitrotoluene / LT .339 Trinitrotoluene / LT .339 Trinitrotoluene / LT .339 Trinitrotoluene / Alpha- LT .339 Trinitrotoluene / LT .339 Trinitrotoluene / LT .339 Trinitrotoluene / LT .339 Trinitrotoluene / LT .339 Trinitrotoluene / LT .339 Trinitrotoluene / LT .339 Tetryl / N-Methyl-N.2,4,6- Tetranitroaniline / Nitramine / * LT .339 Tetryl / N-Methyl-N.2,4,6- Tetranitrotoluene / Nitramine / * LT .339 Trinitrate / LT .3.3-Propanetriol LT .64 ETN / Pentaerythritol tetranitrate / LT .64 ETN / Pentaerythritol tetranitrate / LT .64 ETN / Pentaerythritol tetranitrate / LT .64 ENitrotoluene / LT .53-Trinitrobenzene / LT .519 1,3,5-Trinitrobenzene / LT .519	121-14-2	121-14-2	121-14-2
Cyclotetramethyleneteranitramine Cyclotetramethyleneteranitramine Intry! / N-Methyl-N,2,4,6- Introduce 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,1-Bis[Cintroxy)me* 2,2-Bis[Cintroxy)me* 2,2-Bis[Cintroxy)me* 2,1-Bis[Cintroxy)me* 2,1-Bis[Cintroxy)me* 2,1-Bis[Cintroxy)me* 1,3,5-Trinitrobenzene 1,3,5-Trinitrotoluene 2,4-Dinitrotoluene 3,2-Dinitrotoluene 3,3-Dinitrobenzene 1,3,5-Trinitrobenzene	121-82-4	121-82-4	121-82-4
Tetryl / N-Methyl-N,2,4,6- Tetryl / N-Methyl-N,2,4,6- Iteranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol	2691-41-0	2691-41-0	2691-41-0
tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol LT 3.2 trinitrate 2,6-Dinitrotoluene 2,2-Bis[(nitrooxy)me* 2,2-Bis[(nitrooxy)me* 2,2-Bis[(nitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrotoluene 2,4,6-Trinitrotoluene 2,4,6-Trinitrotoluene 2,4,6-Trinitrotoluene 2,4,6-Trinitrotoluene 2,4,6-Trinitrotoluene 2,4,6-Trinitrotoluene 2,4,6-Trinitrotoluene 2,4,6-Trinitrotoluene 2,4,6-Trinitroaniline / Hexahydro-1,3,5- Trinitroaniline / Nitramine LT .29 Tetryl / N-Methyl-N,2,4,6- Tetryl / N-Methyl-N,2	26-42-8	479-45-8	479-45-8
trinitrate 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,2-Bis[(nitrooxy)me* 2,2-Bis[(nitrooxy)me* 2,Nitrotoluene 3-Nitrotoluene 3,Nitrotoluene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrotoluene 2,4,6-Trinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 3,5-Trinitrobenzene 1,1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,1,3,5-Trinitrobenzene 1,1,3,5-Trinitrobenzene 1,1,3,5-Trinitrobenzene 2,6-Dinitrobenzene 1,1,3,5-Trinitrobenzene 1,1,3,5-Trinitrobenzene 2,6-Dinitrobenzene 2,6-Dinitrobenzene 2,7-Bis[(nitrobenzene 2,6-Dinitrobenzene 2,6-Dinitrobenzene 2,7-Bis[(nitrobenzene 2,7-B	5-63-0	55-63-0	55-63-0
2,6-Dinitrotoluene 2,2-Bis[Cultrooxy)me* 2,2-Bis[Cultrooxy)me* 2,1-Bis[Cultrooxy)me* 2,1-Bis[Cultrooxy)me* 2,1-Bis[Cultrooxy)me* 1,3-Dinitrotoluene 1,3-Dinitrobenzene 1,3-Dinitrobenzene 1,3-Dinitrobenzene 1,1-3-Dinitrobenzene 1,1-3-Dinitrotoluene 1,1-3-Dinitrotoluene 2,4,6-Trinitrotoluene 1,1-3-Dinitrotoluene 1,1-3-Dinitrotoluene 2,4-Dinitrotoluene 1,1-3-Dinitrotoluene 1,1-3-Dinitrotoluene 1,1-3-Dinitrotoluene 1,1-3-Dinitrotoluene 1,1-3-Dinitrotoluene 1,1-3-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 1,1-3-Dinitrobenzene 1,1-3			
PETN / Pentaerythritol tetranitrate / LT 2,2-Bis[(nitrooxy)me*	506-20-2	606-20-2	606-20-2
2,2-Bis[(ntrooxy)me"	8-11-5	78-11-5	78-11-5
3-Nitrotoluene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 1,3-Dinitrobenzene 1,3-Dinitrotoluene 2,4-Orinitrotoluene 2,4-Dinitrotoluene 2,5-Disifinitrobenzene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,7-Bis[(nitrooxy)me* 2,1-Bis[(nitrooxy)me* 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene	18-72-2	88-72-2	88-72-2
1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 1,3-Dinitrobenzene 1,3-Dinitrobenzene 2,4-Nitrotoluene 2,4-Oinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,5-Dinitrotoluene 2,5-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,7-Bis[(nitrooxy)me* 2,1-Bis[(nitrooxy)me* 2,1-Bis[(nitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Dinitrobenzene 1,3,5-Dinitrobenzene 1,3,5-Dinitrobenzene 1,3-Dinitrobenzene	9-08-1	99-08-1	99-08-1
1,3-Dinitrobenzene 1,3-Dinitrobenzene 4-Nitrotoluene Nitrite, nitrate - nonspecific 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,5-Trinitrate Nitroglycerine / 1,2,3-Propanetriol 1,7-2-Bis[(nitrooxy)me* 2,0-Bis[(nitrooxy)me* 2,1-Bis[(nitrobenzene 2,6-Dinitrotoluene 3-Nitrotoluene 3-Nitrotoluene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,1,3-Dinitrobenzene 1,1,3-Dinitrobenzene 1,1,3-Dinitrobenzene 1,1,3-Dinitrobenzene 1,1,3-Dinitrobenzene 1,1,3-Dinitrobenzene 1,1,3-Dinitrobenzene 1,1,3,5-Trinitrobenzene 1,1,3,5	9-32-4	99-35-4	99-35-4
4-Nitrotoluene Nitrite, nitrate - nonspecific 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 2,5-Trinitro-1,3,5-LT .653 Trinitro-1,3,5-Triniarine * Cyclotetramethylenetetranitramine LT .2.29 Tetryl / N-Methyl-N,2,4,6- LT 1.29 Tetryl / N-Methyl-N,2,4,6- Tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol LT .64 PETN / Pentaerythritol tetranitrate / LT 5.02 2,6-Dinitrotoluene 2,6-Dinitrotoluene 2,0-Disi(nitrooxy)me* 2,1:1 .646 2-Nitrotoluene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 1,1,3-Dinitrobenzene 9-65-0	0-9-66	0-9-66	
Nitrite, nitrate - nonspecific 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4,6-Irinitrotoluene 2,4,6-Irinitrotoluene 2,4,6-Irinitro-1,3,5- IT 321 RDX / Cyclonite / Hexahydro-1,3,5- IT RDX / Cyclonite / Hexahydro-1,3,5- IT RDX / Cyclonite / Hexahydro-1,3,5- IT RDX / Cyclonite / Hexahydro-1,3,5- IT RDX / Cyclonite / Hexahydro-1,3,5- IT RDX / Cyclonite / Hexahydro-1,3,5- IT RDX / Cyclonite / Hexahydro-1,3,5- IT RDX / Cyclonite / IT RDX / Cyclonite / IT RDX / Cyclonitrooxylme* IT RDX / Cyclonitrobenzene IT RDX / Cyclonitrobenzene IT RDX / Cyclonitrobenzene IT RDX / Cyclonite / IT RDX / IT	0-66-60		
LT .319 LT .321 LT .653 LT .2.29 LT .2.29 LT .3.2 LT .64 LT .646 LT .492 LT .517	14797-55-8	TF13/	
LT .321 LT .653 LT 2.29 LT 2.29 LT 3.2 LT .64 LT .646 LT .646 LT .646 LT .517 LT .517	18-96-7		
LT .321 LT .653 LT 2.29 LT 2.29 LT 3.2 LT .64 LT .5402 LT .517 LT .517	;		
LT653 LT 229 LT 129 LT 32 LT646 LT646 LT517 LT517	21-14-2	121-14-2	121-14-2
LT 2.29 LT 1.29 LT 3.2 LT .64 LT .646 LT .492 LT .517 LT .517	5-78-17	5-28-121	4-28-121
LT 1.29 LT 3.2 LT .64 LT .646 LT .492 LT .517 LT .517	691-41-0	2691-41-0	2691-41-0
LT 3.2 LT .64 LT .646 LT .492 LT .517 LT .319	79-45-8	479-45-8	479-45-8
LT 3.2 LT .64 LT .646 LT .492 LT .517 LT .319			
LT .64 LT 5.02 LT .646 LT .492 LT .517 LT .319	5-63-0	55-63-0	55-63-0
LT .64 / LT 5.02 LT .646 LT .492 LT .517 LT .319			
/ LT 5.02 LT .646 LT .492 LT .517 LT .319	06-20-2	2-02-50-5	606-20-2
LT 646 LT 492 LT 517 LT 319	8-11-5	78-11-5	78-11-5
LT .646 LT .492 Senzene LT .517 Lene LT .319	6	0	6
LT .492 Denzene LT .517 tene LT .319	7-71-8	7-71-89	7-71-88
LT .517 LT .319	7-08-1	99-08-1	1-80-08-1
LT .319	9-55-4	99-35-4	99-35-4
	0-59-6	0-59-66	0-59-66

^{* -} Analyte Description has been truncated. See Data Dictionary

Site ID NBSW1 NBSW2

Site Type STRM

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CSW Sampling Date Range: 01-JAN-91

24-0CT-94

Data Quals		
Flag Codes	 - - -	
Unit Meas.	190 190 190 190 190 190 190 190	190 190 190 190 190 190 190 190
Conc.	338 10 .319 .321 .653 .2.29 1.29 3.2 .64	2.29 2.29 3.20 2.29 3.2 3.2 3.2 5.02 5.02 5.03 3.8
Meas. Bool.	555 55 55 5 55 5	:5555 5 55 55 55 55555
Analyte Description	4-Nitrotoluene Nitrite, nitrate - nonspecific 2,4,6-Trinitrotoluene / alpha- Trinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene RDX / Cyclonite / Hexahydro-1,3,5- trinitro-1,3,5-triazine * Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitroanniine / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate 2,6-Dinitrotoluene PETN / Pentaerythritol tetranitrate / 2,2-Bisi(nitroxy)me*	3-Nitrotoluene 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 4,Nitrotoluene 4,Nitrotoluene Nitrite, nitrate - nonspecific 2,4,6-Trinitrotoluene 2,4-Dinitrotoluene 2,4-Dinitrotoluene 8DX / Cyclonite / Hexahydro-1,3,5- trinitro-1,3,5-triazine * Cyclotetramethylenetetranitramine Tetryl / N-Methyl-N,2,4,6- tetranitroaniline / Nitramine / * Nitroglycerine / 1,2,3-Propanetriol trinitrate 2,6-Dinitrotoluene PEIN / Pentaerythritol tetranitrate / 2,2-Bis[(nitrooxy)me* 2-Nitrotoluene 3-Nitrotoluene 3-Nitrotoluene 4-Nitrotoluene 4-Nitrotoluene 5-Nitrotoluene 5-Nitrotoluene 5-Nitrotoluene 6-Nitrotoluene 6-Nitrotoluene 7-Nitrotoluene 6-Nitrotoluene 6-Nitrotoluene 6-Nitrotoluene 6-Nitrotoluene 6-Nitrotoluene
CAS No.	99-99-0 118-96-7 121-14-2 121-82-4 2691-41-0 479-45-8 55-63-0 606-20-2 78-11-5	99-75-7 99-35-4 99-55-0 14797-55-8 118-96-7 121-14-2 121-82-4 2691-41-0 479-45-8 55-63-0 606-20-2 78-11-5 88-72-2 99-08-1 99-35-4 99-35-4
Meth/ Matrix	UW35/ UW35/ UW35/	TF13/ UW35/
Lab Anly. No.	PC 38873	PC 40827
	05-FEB-92 05-FEB-92	0.0 06-FEB-92
_	0.0	o•o
Field Sample No.	NBSW1 NBSW2	NBSW3

NBSM3

^{**} End of Report - 211 Records Found **

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-4

Data Quals																							¥	۷	د ۲	۷	<u>~</u>	· ×		×	¥	¥
Flag Codes																					G	۵			ر	د						
Unit Meas.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	를 털 털	ਰ ਹੋਰ ਹੋਰ ਹੋਰ ਹੋਰ ਹੋਰ ਹੋਰ ਹੋਰ ਹੋਰ ਹੋਰ ਹੋ	를 를 <u>할</u>	형형	ig i	g 5	형형	ner	UGL	럴 할	1 2 3 3 3 3 3 3 3 3 3 3	de de	UGL	ŋgr	UGL	UGL	ฮี :	<u> </u>	<u> </u>	3 3	ngr N	NGL	<u> </u>	3 3	John Mark	ner	UGL		NGL	UGL	UGL
Conc.	320 .74 15.4	6.01 6.01	31600	00.	136	30.9	65.1	12.5	38400	100	37.1 70.6	2.5	, 5	8.8	52	45.2	109	970	7,200 **	67 8 17	6.01	8.17	.319	102	. 54	o : t	2.29	1.29		3.2	79 .	5.02
Meas. Boot.	5 :	5 5 5	ī	5		<u>ا</u> د	5	5		֡֞֜֞֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֜֜֜֓֓֓֓֡֜֜֜֡֓֡֓֡֓֡֡֡֜֜֜֡֓֡֡֡֡֓֓֡֡֡֜֜֜֡֓֡֓֜֜֡֡֡֡֡֡	5	17	;		ב				<u>-</u>	<u>.</u> -	; =	בֿו	ב	<u>-</u>	-		-	LT		5	1	11
Analyte Description	Nitrite, nitrate - nonspecific Mercury Lead	Arsenic Selenium	Atuminum	Lead	Manganese	Molybdenum	Nickel Potessium	Silver	Sodium	Thallium	Antimony Rarium	Beryllium	Cachium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Cvanide	Arsenic	Cyanide	2,4,6-Trinitrotoluene / alpha-	Finitrotoluene 2	PDY / Cyclonite / Hexabydro-1 3 5.	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	2,6-Dinitrotoluene	<pre>PETN / Pentaerythritol tetranitrate / 2,2-Bis[(nitrooxy)me*</pre>
CAS No.	14797-55-8 7439-97-6 7439-92-1	7440-28-0	7429-90-5	7439-92-1	7439-96-5	7439-98-7	2,440-05-0	7440-22-4	7440-23-5	7440-28-0	7440-30-3	7440-41-7	7440-43-9	2440-47-3	7440-48-4	7440-50-8	7440-62-2	7440-66-6	7-07-044/	57-12-5	7440-38-2	57-12-5	118-96-7	121:142	121-82-4	-	2691-41-0	479-45-8	. !	55-63-0	606-20-2	78-11-5
Meth/ Matrix	99 / SB07/ SD08/		SS15/W																	TY03/	SD08/	TY03/	UM35/W									
Lab Anly. No.																					94978D		B94978									
Lab	5																						2									
Sample Date	27-MAR-92																						23.0 27-MAR-92									
Depth	23.0																					•	23.0									
Field Sample No.	91811																						91811									
Site ID	91811																						918110									
Site Type	WELL																															

^{* -} Analyte Description has been truncated. See Data Dictionary

Appendix J
Groundwater Data

Field Sample No.

Site Site Type ID

91812

91812

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

24-001-94

Data Quals 	∠
Ftag Codes	~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Unit Meas. UGL UGL UGL UGL	
Conc. .646 .492 .317	5.5. 6.01 14.9 26400 62000 100 2080 687 30.9
Meas. Bool.	אר אר א אר יין יין יין יין יין אין אין אר אר אר אר אר אר אר אין אין אין אין אין אין אין אין אין אין
Analyte Description	Mercury Lead Thallium Arsenic Selenium Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Silver Sodium Thallium Antimony Barium Antimony Barium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Antimony Rarium Cadmium Chromium Cobalt Calcium Selenium Selenium Sinc Calcium Selenium Sinc Calcium Selenium Sinc Calcium Selenium Sinc Calcium Selenium Sinc Calcium Selenium Sinc Calcium Selenium Sinc Calcium Selenium Sinc Calcium Cabalt Capper Vanadium Sinc Calcium Cabalt Capper Vanadium Selenium Selenium Sinc Calcium Calcium Selenium Selenium Selenium Selenium Selenium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Cabalt Capper Vanadium Capper Calcium Capper Vanadium Capper Calcium Capper Vanadium Capper Vanadium Capper Vanadium Capper Capper Vanadium Capper Capper Vanadium Capper Capper Vanadium Capper Capper Vanadium Capper Capper Vanadium Capper Cappe
CAS No. 88-72-2 99-08-1 99-35-4 99-65-0	747.97-6 7439-97-6 7439-92-1 7440-28-0 7428-90-5 7439-98-5 7439-98-7 7439-98-7 7440-23-9 7440-23-9 7440-39-3 7440-43-9 7440-43-9 7440-43-9 7440-43-9 7440-43-9 7440-43-9 7440-43-9 7440-43-9 7440-66-6 7440-66-6 7440-65-2 7440-65-2 7440-65-2 740-62-2 740-65-2 740-60-2
Meth/ Matrix UW35/w	SS15/ SS15/ ITY03/ UM05/
Lab Anly. No. 	87474
Lab /	2
Sample Date 27-MAR-92	45.0 11-MAR-92
Depth 23.0	45.0

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

Site Site Type ID ---- WELL 91812

Data Quals	1 1 1																																												
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Unit Meas.		9	ner	ign	5	NGL		NGL	ner	UG.	UGL	NGL	NGL	NGL	NGL	UGL	NGL	ner	ngr	UGL	T9A	ner	T9n		9	d =	3 3	100	חפר.	UGL	3	UGL	Č	UGL	UGL	NGL	UGL	ner	T DO	ign	121	3 3	3 5	3 5	200
Conc.	· · ·	•	\$	ın	.	2		'n	10	21	2	2	2	10	10	10	10	· LC	۲.	2	LC1	. 40		ı	ır	, L		<u> </u>	ם ר	0	ш	•	,	•	15	S.	20	20	10	10	10	100	2 5	2 5	2
Meas. Bool.	: S	È	ð	QN)	ş		ð	象		ş	2	ð	ş	Q	Ş	Q.	Ş	Ş	Ş	9	2	2		Š	2	9	2 4	2 9	2	9	2			2	Ş	ջ	Ş	QN	QN	Q	9	2	2	į
Analyte Description	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	<pre>Tetrachloroethene / Perchloroethylen* cis-1,2-Dichloroethylene / cis-1,2-</pre>	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1.2-Dichloropropane	Methyl Pthyl Ketone / 2-Butanone	1 1 2-Trichlorosthon	int land the	Fthinyl trichloride / T. Entoroethene /	Tetrachlorotham / 1 1 2 2	Tetrachlorotham / Acetalom *	ייכני	Compound U19	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1.4-Dichtorohenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	17117 11/47 14/57 15/11 11/57
CAS No.	124-48-1	· !	127-18-4	156-59-2		156-60-5		26-23-5	591-78-6	L-99-J9	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	79-00-5	70-07		70-3/2-5						100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	
Meth/ Matrix																																					/90Wn								
Lab Lab Anly. No.	PC 74748																																												

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-0CT-

Sample Depth Date ----- 45.0 11-MAR-92

Field Sample No. 1

Site Site Type ID

	Data Ouels	1																																															
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	Unit Meas	• 1 • 1 • 1 • 1	NGL		NGL	UGL	UGL	NGL	ner	T5n	ner	=	3 5] =	3 3	3 3	OGF	NGL	Ner	NGL		NGL	1911	ign ngr	; <u>=</u>	3 3	3 5	הבי	OGE		UGI.		NGL	ner	ngr		NGL	T9N	1911	191] <u>-</u>	3	200	חפר.	NGL	NGL	NGL	ngr	UGL
	Conc.		10		10	10	10	10	10	10	10	2	2 0	2 €	5 5	2 6	⊇;	2 :	9	9		10	10	2 0	. [2 =	2 5	2 6	2	i	20		5	5	10		10	10	20	10	£	2 5	2 5	2 5	2 :	9 :	0 :	0 ;	01
	Meas.		9		2	2	2	Ą	9	Ą	Ş	S	9	9	2	2 5	2	æ	2	ð		욷	Q	2	S	9 9	9	2 4	N N	;	₽		2	₽	₽		9	9	Q	9	9	2	2 9	2 9	2 :	2	Q:	2	9
	Analyte Description		Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2.4-Dichlorophenol	2.4-Dinitrotoluene	Renzoldeflohenanthrene / Pyrene	Dimethyl phthalate	Situation of the state of the s	Dipelizoruran	Benzolgn1jperylene	Indeno[1,2,3-C,D]pyrene	Benzo[b]fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzofalnvrene	2 4-Dinitrophenol	Pibonafehlanthassas / 1 2.5 /-	Dibenzianjantni acene / 1,2:3,0-	Ulbenzantnracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo [a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Rexachlorocyclopentadiene	1 sonhorone	Aconsthictor	Accidating in	Dietnyt phrhatate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine
1	CAS No.		108-95-2	;	111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	123-77	4-40-761	7-67-161	195-59-5	202-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	52,70-2	6-01-66	,	1-24-554		541-73-1	56-55-3	59-50-7		606-20-2	621-64-7	65-85-0	67-72-1	7-47-77	78-59-1	84-42-0	0, 35, 50	2,00-40	7-1/-58	82-01-8	85-68-7	0-00-00
	Meth/ Matrix		/90MN																																														
	Lab Lab Anly. No.		PC 74748																																														

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

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Unit Meas.	nei	NGL		NGL	NGL	ner	ายีก	1 5] 	j =	ופו ה	j 5	ngr n	1011	ner	NGL		NGL	UGI.	UGL	NGL		UGL	NGL	į	ਰ ਨ	Our	TSIN		UGL	ngr		ngi	n ci.	UGI.	NGL	NGL	NGL	NGL	ner	ה הפנ	J 7	ากก
Conc.	10	10		20	10	20	10	10	10	2 =	2 5	2 0	2 0	10	20	10		20	10	10	.319		.321	.653	6	1 20	1.67	3.2		.64	5.02		949.	765.	.517	.319	.338	2.5	14.9	7	2150	0616	<u>.</u>
Meas. Boot.	₽	욧		Q	9	욧	Ą	S	9	9	2	Ş	9	QN	9	S		Q.	Q	Q,	_		<u></u>	L		_ <u>_</u>	5	_		LT.	LT		<u>-</u>	_	ב	Ļ	L	ב	רַ			1	;
Analyte Description	Fluorene / 9H-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	Contact of the contac	cyclotetrametmytenetetranitramine Tetrol / N-Methol-N 2 & 6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	Z,Z-Bis[(nitrooxy)me*	Z-Nitrotoluene	5-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Thallium	Selenium	Unknown compound 019	VINIONI COMPONIO 019 Total ordanic carbon	Mercury	
CAS No.	86-73-7	87-68-3	0	87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		99-09-2		1	118-96-7	•	121-14-2	121-82-4	2401-71-0	479-45-8		55-63-0		606-20-2	78-11-5	د در ۵۵	7-71-00	77-00-1	99-35-4	99-65-0	0-66-66	7440-28-0	2-65-28//			9-26-6272	
Meth/ Matrix	/90WN																				UM35/																	8008/		UMU5/	/ 00 00	SB07/	
Lab Lab Anly. No.																																					1 1 1 1	74/480	7, 7,	74748MS	77666		
Sample Date	85																																								15.0 15-MAR-92 PC		
Depth	45.0																																								15.0 1		
Field Sample No.	91B12																																								91813		
Site Site Type ID	2																																								91813		

* - Analyte Description has been truncated. See Data Dictionary

Site Site
Type ID
---WELL 91813

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-'

Flag Data Codes Quits																																									
Unit Meas.	UGI.	ner	NGL	ner	UGL	7 OGF	חפו	JSD NOT	ner	UGL	NGL	UGL	חפר :	ngr	ner	UGL	NCL	UGL	ner	ngr	ner	NGL	NGF	ner	ner	790		ner	OG!		OG!	100	1911	5	ner	NGL		ner	חפר	ner	UGI.
Conc.	1.7	6.01	14.9	316	100	2010	705	30.9	63.1	1250	12.5	4100	100	37.1	21.2	2.5	2	22.4	22	50	20	52 5	9290	72	8.17	.319		.321	.655		5.29	1.29	2	;	79.	5.02		949.	492	.517	.319
Meas. Boot.	<u>-</u>	: 5	רַ		<u>-</u>	_			: =	5	<u>-1</u>		5			LT	LI		٢٦	Lī	ニ			[1	5				<u>.</u>		ָרַ !	_	-	j	ב	ב		۲	L	_ :	_
Analyte Description	Lead	Inattium Arsenic	Selenium	Aluminum	Iron	Lead	Magnesium	Molybdenum	Nickel	Potassium	Silver	Sodium	Thallium	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Cyanide	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,5,5-	trinitro-1,5,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	<pre>tetranitroaniline / Nitramine / * Nitroalycerine / 1 2 %-Dropphetrial</pre>	trinitrate	2.6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene
CAS No.	7439-92-1	7440-38-2	7782-49-2	7429-90-5	7439-89-6	1-26-654/	7/30-96-5	7-89-98-7	7440-02-0	2-60-0572	7440-22-4	7440-23-5	7440-28-0	7440-36-0	7440-39-3	7440-41-7	2440-43-9	2440-42-3	7440-48-4	7440-50-8	7440-62-2	2440-66-6	7440-70-2	7782-49-2	57-12-5	118-96-7		121-14-2	121-82-4	:	2691-41-0	479-45-8	0-29-55		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-69-66
Meth/ Matrix	/80as			SS15/																					TY03/	UM35/															
Lab Lab Anly. No.	PC 77666																																								
Sample Date	15-MAR-92																																								
Depth	15.0																																								
Field Sample No.	91813																																								

^{* -} Analyte Description has been truncated. See Data Dictionary

Field Sample No. [91813 91814

Site Site Type ID ----WELL 91813

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

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	Unit	Meas.		ายก	T9N	Ner	191		ner	ner		ner	OGL	ner		ner		ner		חפר		UGF	NGL	NGL	ngr	ner	T90	l BO	150	ngn	TOOL	NGL	UGI.	ner	UCI	NCL	UGI.		ngr.	UGL	NGL	NGL	NGL		
	i	Conc.	.338	1050	2	7	2		2	9		5	2	2		2		2		5	ı	2	10	10	2	2	5	10	10	10	10	2	5	5	2	5	5		2	2	10	2	2		
	Meas.	. 1008	ב		ş	Q.	Q		QN	QN		Q	Q	Q		용		Q.		Q.		Ş	Q	Q	Q.	Q	Q	Q	Q.	QN	QN	QN	QN	Ş	QN	Q	Q		읒	Ş	Q	Q	Q.		
1-JAN-91	(יייייייייייייייייייייייייייייייייייייי	4-Nitrotoluene	Nitrite, nitrate - nonspecific	Ethylbenzene	<pre>styrene / Etnenylbenzene / Styrol / Styrolene / Cinnamene *</pre>	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	1,2-Dichloroethane	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	letrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Uichloroethene	cal bon letrachioride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1, Z-Ulchloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Irichloroethane	Irichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	
Jampering Date Range: 01-JAN-91	040		0-66-66	14797-55-8	100-41-4	C-24-001	10061-01-5		107-06-2	108-10-1	1	108-88-3	108-90-7	1-84-421	, 01 201	4-81-77		2-64-941		5-09-901	54-22-5	70-17	591-78-6	1-40-70	6/-66-5	71-45-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	7-57-57	4-72-9	10-54-5	75-35-4		4-69-5	C-18-01	78-95-5	79-00-5	0-10-6/	70-2/5	つ たつ しん
Sample III	Meth/		UM35/	/ 66	M/COMO																																								
	Lab Aniv No.	٠.	PC 77666	PC 89648																																									
	Sample Depth Date		15.0 15-MAR-92	8.0 24-MAR-92																																									
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^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCI-

24-001-94

Field Sample Sample Sample No. Depth Date 01814 8.0 24-MAR-92

Site Site Type ID

Date: Quals	1																																										
Flag Codes	· ·		≃ :	~ c	¥ :	∝ :	~	~	~	~	~	~	~		~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		~	~	×	~	~	~	×	,	×	٥	< c	× 0	<u>.</u>
Unit Meas.	UGI.		ე ე	<u>1</u>	J i	าย :	UGL	UGL	NGL	UGL	UGL	UGL	ngr		ner	UCL	UGL	ngr	GGL	UGL	ner	UGL	UGL	UGL	NGL	UGL	ПGL	UGL	NGL		15N	NGL	UGL	ngr.	TSN	NGI.	ner	:	NGL	31	2 2	j :	2 2
Conc.			٠ <u>٠</u>	ν ₂	00	20	10	10	10	10	10	10	10		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		10	10	10	10	10	50	10	ć	20	Ç	2 6	<u> </u>	2
Meas. Bool.	N ON		윤 :	2 9	2 :	⊋ :	Q Z	윷	윷	윷	Ş	Q	S		9	9	Q	Ş	Ş	ş	읒	읒	皇	읒	ջ	9	皇	Q	Q.		₽	S	윷	Q	₽	Q	Q	:	2	9	2 5	9 €	į
Analyte Description	Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	#-N L10d 1110d	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline		Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,D]pyrene	Benzo[b] fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzo [a] pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,0-UINITFO-2-Cresol / 2-Methyl-4,6-	dinitrophenol 1 3-Dicklosobenzene	Bonzo [a] anthracen	Senzolajanum acene 3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*
CAS No.	79-34-5			100-01-4	0-10-001	7-20-001	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		1-76-966	57.1-73-1	24-55-43	59-50-7	
Meth/ Matrix	UM05/W			1 MOK1	/online																																						
Lab Lab Anly. No.	PC 89648																																										

^{* -} Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ---- WELL 91814

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

24-001-94

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Flag Code,		: 2	: ≃	~	· ~	~	: 24	~	: ≃	: 24	: ac	~	~	~		~	~	æ	~	œ	~	~	~	œ	ď	œ	~	~		~	œ	~		~	~		~		~	~		œ	œ	
Unit Meas.	- TSD	1911	NGL	ngr	ner	ner	ner	ner	חפר	150	ngr	UGL	NGL	NGL		nei.	NGL	UGL	UGL	UGL	UGL	UGL	UGL	UGL	UGL	UGL	UGL	ายก		UGI	UGF	OGF	UGL	UGI.	UGI.		uct		ner	NGL		nar	UGL	
Conc.	10	£	50	10	10	10	10	10	10	2 0	10	10	10	10		20	10	20	10	10	10	10	20	10	10	10	20	10		20	10	10	22.7	5	5		2		5	10		2	2	
Meas. Bool.	- ON	S	9	2	윤	QN	2	QN	Q.	2	2	S	S	QN		2	S	Q.	ջ	용	Q.	ջ	Q.	웆	QN QN	NO NO	QN	Q.		QN	Q N	QN QN		ND	QN QN		Q		Q	웆		9	Ş	
Analyte Description	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9M-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	Nitrite, nitrate - nonspecific	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	1,2-Dichloroethane	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	
CAS No.	606-20-2	621-64-7	65-85-0	67-72-1	4-24-22	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		99-09-2			14797-55-8	100-41-4	100-42-5		10061-01-5		107-06-2	108-10-1		108-88-3	108-90-7	124-48-1
Meth/ Matrix	UM06/																																TF13/	UM05/										
Lab Lab Anly. No.	PC 89648																																PC 85200											
Sample th Date	2																																11.0 20-MAR-92											
Field Sample No. Depth																																	91815 11.											

^{* -} Analyte Description has been truncated. See Data Dictionary

91815

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

	Data Quets	. :																																											
	Flag Codes	:	~	~		~		~		×	œ	S	œ	œ	œ	œ	≃	œ	œ	œ	œ	œ	œ	œ	~		œ	~	~	æ	œ		~		~	~	×	~	~	: ≃	~	œ	~	~	
	Unit Meas.	:	UGL	UGL		NGL		ngr	č	UGL	NGL	NGL	NGL	NGL	NGL	NGL	NGF.	NGL	NGL	NGL	NGL	Ner	UGL	NGL	ПGL		NGL	NGL	UG(UGI.	NGI.		nei.		ngı.	NGL	NGL	NGL	NGL	UGL	ner	NGL	NGL	NGL	
	Conc.		2	Ŋ		2	•	2		Λ.	10	17	5	2	2	10	10	10	10	2	2	5	2	2	2		2	5	10	2	2		20		5	2	20	50	10	10	10	10	10	10	
	Meas. Bool.	1 + 1	Ş	S		S	;	2	9	Q	2		Q	2	S	2	ջ	욮	Q	S	ᄝ	2	욧	ջ	욮		웆	Q	읒	읒	2		Q		2	읒	Q	용	2	S	Q	ð	욮	2	
01-JAN-91 24-UCI-94	Analyte Description		Dibromochloromethane /	Chlorodibromomethane Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2.4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol		4-Chloroaniline	Bis(2-chloroisopropyl) ether	
Date kange: 01-JAN-91	CAS NO.		124-48-1	127-18-4		156-59-2	:	156-60-5		c-52-90	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5				100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2
sampt ing	Meth/ Matrix																																				/90W0								
	Lab Lab Anly. No.		PC 85200																																										
	Sample Date		20-MAR-92																																										
	Depth		11.0																																										
	Field Sample No.		91815																																										

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

Flag	Codes	1	~		c
Unit	Meas.		ner		1311
	Conc.	1	10		10
Meas.	Bool.		ð		Ş
	Analyte Description		Phenol / Carbolic acid / Phenic acid ND	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether
	CAS No.		UMO6/ 108-95-2		111-44-4
Meth/			/90M0		
rab	Lab Anly. No.		PC 85200		
Sample	Date	-	20-MAR-92		
:	Depth		11.0		
Field	sample No.		91815		
Site	a ;		91815		
Site	i ype		WELL		

Meth/			Meas.		Unit	Flao	Data
latrix	CAS No.	Analyte Description	Bool.	Conc.	Meas.	Codes	Quals
	:			1 1	1 1		1 1
JM06/	108-95-2	Phenol / Carbolic acid / Phenic acid	S S	10	חפר	~	
		/ Phenylic acid / Phe*					
	111-44-4	Bis(2-chloroethyl) ether	N Q	10	UGL	~	
	111-91-1	Bis(2-chloroethoxy) methane	R	10	ner	~	
	117-81-7	Bis(2-ethylhexyl) phthalate	Q	10	190	· ~	
	117-84-0	Di-n-octyl phthalate	Q.	10	ng.	· œ	
	118-74-1	Hexachlorobenzene	Q	10	150	· ~	
	120-12-7	Anthracene	QN QN	10	55	· œ	
	120-82-1	1,2,4-Trichlorobenzene	S	10	l B	: ~	
	120-83-2	2,4-Dichlorophenol	S	10	1 5	: 02	
	121-14-2	2,4-Dinitrotoluene	Q	10	195	· œ	
	129-00-0	Benzo[def]phenanthrene / Pyrene	N Q	10	lg Ne	· ~	
	131-11-3	Dimethyl phthalate	2	10	ngr	~	
	132-64-9	Dibenzofuran	S	10	UGL	œ	
	191-24-2	Benzo[ghi]perylene	2	10	UGL	œ	
	193-39-5	Indeno[1,2,3-C,D]pyrene	S	10	UGL	~	
	205-99-2	Benzo[b]fluoranthene / 3,4-	S	10	ษั	~	
		Benzofluoranthene					
	206-44-0	Fluoranthene	QN QN	10	ner	~	
	207-08-9	Benzo[k] fluoranthene	S	10	1911	: 02	
	208-96-8	Acenaphthylene	S	10	5 5	: 02	
	218-01-9	Chrysene	S	10	3 3	د ۵	
	50-32-8	Benzo[a]pyrene	2	10	3 5	ے د	
	51-28-5	2.4-Dinitrophenol	S	20	191	د ۵	
	53-70-3	Dibenz[ah]anthracene / 1.2:5.6-	2) C	d =	د ۵	
		Dibenzanthracene	ļ	2	3	٤	
	534-52-1	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	Ą	50	ner	~	
		dinitrophenol			!		
	541-73-1	1,3-Dichlorobenzene	QN	10	190	~	
	56-55-3	Benzo [a] anthracene	Q	10	į	: 02	
	59-50-7	3-Methyl-4-chlorophenol / 4-Chloro-3-	QN	10	nei	. œ	
		cresol / 4-Chloro-3-m*					
	606-20-2	2,6-Dinitrotoluene	QN	10	UGL	~	
	621-64-7	N-Nitrosodi-n-propylamine	QN	10	UGL	~	
	65-85-0	Benzoic acid	ON	50	i ign	: 02	
	67-72-1	Hexachloroethane	S	£	33	۵ ۵	
	7-47-77	Hexachlorocyclopentadiene	2	10	를 등	۰ ۵	
	78-59-1	Isophorone	9	: -	g =	د ۵	
	83-32-9	Acenaphthene	2	20	j =	۰ ۵	
	84-66-2	Diethyl phthalate	9	; C	7 5	: 0	
	84-74-2	Di-n-butyl phthalate	9	10	3 5	∠ م∠	
	85-01-8	Phenanthrene	2	£ £	<u> </u>	۰ ۵	
	85-68-7	Butylbenzyl phthalate	2	<u>1</u>	j =	ء ء	
	86-30-6	N-Nitrosodiphenylamine	S	10	195	· œ	
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* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCI-

24-001-94

Meas. Bool. ND 10 UGL R ND 10 UGL R ND 50 UGL R ND 10 UGL R ND 50 UGL R ND 1	
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Analyte Description	Benzo[ghi] perylene
26.8 No. 26.73-7 86-73-7 87-68-3 87-86-5 88-06-2 88-74-4 88-75-5 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-3 91-20-1 95-57-6 91-58-7 91-58-7 91-58-7 91-68-7 110-01-6 110-01-6 111-91-1 117-81-7	191-24-2
Meth/ Matrix UMO6/	
Lab Anly. No	
Sample Date Date 11.0 20-MAR-92 0.0 20-MAR-92	

91B15D

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

Depth

Field Sample No. 1

Site Site Type ID ----WELL 91815

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Analyte Description		Indeno[1,2,3-C,D]pyrene	Benzo[b] fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzofalpyrene	2,4-Dinitrophenol	Dibenz [ah] anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo[a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9M-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentach Loropheno l	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol
CAS No.		193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		534-52-1		541-73-1	56-55-3	29-20-7		606-20-2	621-64-7	65-85-0	67-72-1	77-47-4	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4
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Lab Lab Anly. No.		PC 85219																																											
Sample Date	:	20-MAR-92																																											

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

24-0CI-94

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01-JAN-91 24-OCT-94	Analyte Description	Nitrohonzono / Essonco of mirhono /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	3	Nitrite, nitrate - nonspecific		Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	1,2-Dichloroethane	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Irichlorofluoromethane	1,2-Dichloropropane
Date Range: 01-JAN-91	CAS No.	08-05-3		2-60-66				14797-55-8	100-41-4	100-42-5		10061-01-5		107-06-2	108-10-1		108-88-3	108-90-7	124-48-1		127-18-4		156-59-2		156-60-5		56-23-5	591-78-6	1-49-79	67-66-3	71-43-2	71-55-6	74-85-9	74-87-5	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4	,	7-69-61	78-87-5
Sampling	Meth/ Matrix	11006/	S					TF13/	UM05/																																				
	Lab Lab Anly. No.	PC 85210						PC 85219																																					
		20-MAR-02						11.0 20-MAR-92																																					
) ;					11.0																																					
	Field Sample No.	01R15n																																											

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ----WELL 91B15

91816

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

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Analyte Description	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	tthinyl trichloride /ī* Tetrachloroethane / 1 1 2 2-	Tetrachloroethane / Acetylene *		trans-1,3-Dichloropropene	Mercury	Lead	Thallium	Arsenic	Selenium	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silver	Sodium	Thallium	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Nitrite, nitrate - nonspecific		Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	i,z-Ulchloroethane	
CAS No.	78-93-3	2-00-62	79-01-6	79-34-5				7439-97-6	7439-92-1	7440-28-0	7440-38-2	7782-49-2	7429-90-5	7439-89-6	7439-92-1	2439-95-4	7439-96-5	7439-98-7	7440-02-0	7-60-05-7	7440-22-4	7440-23-5	7440-28-0	7440-36-0	7440-39-3	7440-41-7	2440-43-9	2440-42-3	7440-48-4	2440-50-8	7440-62-2	9-99-0552	7440-70-2	7782-49-2	14797-55-8	57-12-5	100-41-4	100-42-5		10061-01-5	0 70 701	108-10-1	- 2
Meth/ Matrix	UM05/							ZB07/	SD08/				SS15/																						TF13/								
Lab Lab Anly. No.	PC 85219							PC 77674																																			
Sample Date	20-MAR-92							14-MAR-92																																			
Depth	11.0							25.0																																			
Field Sample No.	918150						,	91816																																			

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID -----WELL 91B16

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCI-

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Analyte Description	Mothy isoluty Votone	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1.1.1-Trichtoroethane	Bromomethane	Chloromethane	Chloroethane	Wind Octions	with chioride / chloroethene	meinylene chloride / Dichloromethane	Carbon disultide	Bromotorm	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	<pre>Trichloroethylene /Trichloroethene /</pre>	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol
CAS No.	108-10-1		108-88-3	108-90-7	124-48-1		127-18-4		156-59-2		156-60-5		56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75.01-7	72-01-4	2-60-67	0-51-67	7-57-51	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5				100-01-6	100-02-7	100-51-6	105-67-9	106-44-5
	IMOS/																																								/90Mn				
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Sample Date	14-MAP-02																																												
Depth	25.0	}																																											
Field Sample No.	01816																																												

* - Analyte Description has been truncated. See Data Dictionary

Field Sample No. 1

Site Site Type ID ----WELL 91816

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

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Analyte Description	1.4-Dichlorobenzene	4-Chloroapiline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2.4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,D] pyrene	Benzo[b] fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzo[a]pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2;5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo[a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate
CAS No.	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		534-52-1	į	541-73-1	56-55-3	29-20-2		606-20-2	621-64-7	65-85-0	67-72-1	77-47-4	78-59-1	83-32-9	84-66-2	84-74-2
Meth/ Matrix																																												
Lab Lab Anly. No.	PC 77674																																											
	14-MAR-92																																											
o. Depth	25.0																																											

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Jype: CGW Sampling Date Range: 01-JAN-91

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Analyte Description	Phenanthrene	Butylbenzyl phthalate	N-Nitrosogiphenylamine	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	UTUITTALE 2 A-Disitrotolusse	PETN / Pentaerythritol tetranitrate /		2-Nitrotoliene	Z-Mitrotoluspo	1 % Sitrinitroboniono	1,5,5-11 III U 0Denzene	1,5-Uinitropenzene	4-Nitrotoluene	mercury	Lead	וומריזמוו
CAS No.	85-01-8	85-68-7	80-30-6	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	2-48-5	95-50-1	95-57-8	95-95-4	98-95-3		99-09-2			118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0	6-06-304	78-11-5	-	88-72-2	00-08-1	75-00	44-33-4	0-69-66	77.70.02.72	0-14-36-12	1-26-6547	> 11 0 11
Meth/ Matrîx																							NM35/																	14000	//095	2000	
Lab Lab Anty. No.	PC 77674																																								PC 01/32		
Sample Date	14-MAR-92																																							74	14.U 1/-MAK-Y2		
Depth	25.0																																							,	1.		
Field Sample No.	91816																																							77440	7.81.6		
Site ID	91816																																								71817		
Site Type	WELL																																										

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

Field Sample Sample Sample No. Depth Date

Site Site
Type ID
WELL 91817

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Unit Meas.	[2]	ng.	UGL	1 50	1 2	1 5	<u> </u>	, 	Ten Nei	ner	UGL	UGL	UGL	NGL	NGL	NGL	NGL	NGL	NGL	ngi.	UGL	NGL	חפר	UGL	NGL.	UGL	UGL		UGL		Ngi	NGF		NGL	ngi	NGL		ng r		UGL	2	! !
Conc.	6.01	14.9	1500	2880	1200	88.4	30.9	63.1	1250	12.5	2040	100	37.1	23.2	2.5	2	36.6	52	20	20	516	23700	23	580	8.17	5	2		2	,	ſ	10	,	ς.	Ŋ	2		22		'n	۲۰	,
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Analyte Description	Arsenic	Selenium	Aluminum	I ron Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silver	Sodium	Thallium	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium		Nitrite, nitrate - nonspecific	Cyanide	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Ulculoropropene	I, z-Dichloroethane	Metnyl Isobutyl Ketone /	1sopropylacetone / 4-Methyl-2-pen*	lotuene	Chlorobenzene / Manochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	retrachioroethene / Perchioroethylen*	<pre>c1s-1,2-D1chloroethylene / c1s-1,2- Dichloroethene</pre>	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene
CAS No.	7440-38-2	7782-49-2	2-06-6247	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2440-05-7	7440-22-4	7440-23-5	7440-28-0	7440-36-0	7440-59-3	7-14-0-41-7	7440-45-9	7440-47-5	7-84-044/	7,40-20-8	7-79-055/	7440-00-0	7-07-0447	2-65-787	14797-55-8	27-75	100-41-4	100-42-5		10061-01-5	20 201	107-00-2	1-01-001	100.001	100-00-3	7-06-801	124-48-1		127-18-4		7-66-061	156-60-5	
Meth/ Matrix	SD08/	0015 /11	M/CIEC																					TF15/	1705/	M/SOMO																
Lab Anly. No.	PC 81752																																									

^{* -} Analyte Description has been truncated. See Data Dictionary

Field Sample No.

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

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Unit Meas.	NGL	NGL	UGL	UGL	UGL	NGL	NGL	UGL	J9N	UGL	UGL	UGL	UGI.	NGL	NGL	UGL		Ner	UGL	NGL	UGL	NGL	Ner		NCL	NGL	ner	ngr	NOI.	ner	ngr	UGL	UGL	NGL	NGL		UGL	NGL	TON	19 0	NGL	ngi.	ner
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Analyte Description	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Tetrachloroethane / 1.1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene
CAS No.	56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6	79-34-5				100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1
Meth/ Matrix	UMO5/W																										/90MN																
Lab Lab Anly. No.	PC 81752																																										
	0 17-MAR-92																																										
Depth	14.0																																										

* - Analyte Description has been truncated. See Data Dictionary

Field Sample No. 1

Site Site Type ID WELL 91817

Final Documentation Appendix Report Installation : Anniston Ab, AL (AN) File Type: CGW 24-OCT

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Unit		ng.	UGL	NGL	NGL	NGL	UGL	NGL	NGL		UGL	NGL	UGL	UGL	UGL	NGL	UGL		UGI.			C.	NGI.		UGL	UGL	190	ngr	1971	าอก	กยา	ner	UGL	NG!	ign	ngi.	NCI	190		NGL	NCL	NCL	NCL	UGF	UGF.
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Analyte Description		2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,0]pyrene	Benzo[b] fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzo[a]pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	1 2-Nichlescheman	port (c) orthogram	benzo La Jantin racene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Oi-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9M-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene
CAS No.		120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	202-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		534-52-1	57.1-77-1	54.55.2	70-77-7	2-05-65		606-20-2	621-64-7	65-85-0	67-72-1	77-47-4	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6
Meth/ Matrix		/90WN																																											
Lab Anly. No.		PC 81752																																											
Sample . Depth Date	:	14.0 17-MAR-92																																											

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

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Analyte Description	2-Chloronaphthalene	3 3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1 2-Nichtorohanzana	2-Chlorophenol	2 / E.Tojohlozophonol	2,4,3-IIIcntorophenot	Nitropenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2 4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1.3.5-	trinitro-1.3.5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N.2.4.6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1.2.3-Propanetriol	trinitrate	2.6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury	Nitrite, nitrate - nonspecific		Lead	Thallium	Arsenic	Selenium	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	
CAS No.	91-58-7	91-94-1	2-87-56	05-50-1	95-57-8	05.05.7	77-73-4	6-66-06		69-09-2			118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5	88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	7439-97-6	14797-55-8	57-12-5	7439-92-1	7440-28-0	7440-38-2	7782-49-2	2429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	0-20-0552	2-60-0552	
Meth/ Matrix	UM06/												UM35/																	2807/	TF13/	TY03/	SD08/				ss15/								
tab Lab Anly. No.	PC 81752												PC 81752																	PC 74780			PC 74780												
Sample Date	17-MAR-92												18-MAR-92																	11-MAR-92			6.0 11-MAR-92												
Depth	14.0																													2.0			9.0												
Field Sample No.	91817																													91818															
re Site	9																													91818															
Site Type	: 급																																												

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID WELL 91818

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-0CI-

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Analyte Description		Silver	Sodium	Tho. 1: m		Antimony	Barium	Bervi Lium		בים מיוון מיוו	Chromium	Cobal t	Comper	Versedim		71DC	Calcium	Selenium	Ethylbenzene	Styrene / Ethenvibenzene / Styrol /	Styrolene / Cinnamene *	City 2. Dich Comment of 1 2 1 2	c':-'s':'', a-ulcilloropi'opy\ene / cls-1,3-	Dichloropropene	1,2-Dichloroethane	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toleron	lornene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylone /	Tetrachloroethane / Derchloroethylon*	cis-1 2-Dichloroethylene / cis-1 2-	Dichloroethane	+ + + + + + + + + + + + + + + + + + +	1 2-picklement reservations / trans-	', c_Dicilioi detnene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Renzepe	פטווקטום	I, I, I-Irichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	
CAS No.		7440-22-4	2440-23-5	77.70-28-0	1,10	144G-30-G	7440-39-3	7440-41-7	0-27-0772	140-47-7	7440-47-5	7440-48-4	8-05-077	2-69-0772	7 77 07 72	0-00-0447	7-07-0447	7782-49-2	100-41-4	100-42-5		10041-01-5	0-10-10001		107-06-2	108-10-1		108.88.7	5-00-001	108-90-7	124-48-1		127-18-4		156-59-2		156-40-E	200 000	1 0	26-23-5	591-78-6	67-64-1	67-66-3	21-63-2	77 77 7	9-66-17	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	
Meth/ Matrix	:	SS15/																	140MU																																		
Lab Lab Anly. No.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PC 74780																																																			
Sample Date		11-MAR-92																																																			
Depth	!	6.0																																																			
Field Sample No.		91818																																																			

^{* -} Analyte Description has been truncated. See Data Dictionary

Site Site Type ID WELL 91818

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCI-

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Unit Meas.	T9N	ner	ner	ner		UGI.	UGL	TDO	NCL	nor	i	ner		NGL	UGL	ner	Jon	ngr	ngn	ner	19n	ign Ner	<u> </u>	55	i i	101	<u>1</u>	ายก	TSn	lgn	ngr	UGI.	NGF	UGL	UGL	UG!	UGL	UCL	NGL	ncr		ner	ngr	T9n
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Meas. Bool.	S S	용	욮	S		Q	Q	Q.	S	S		욮		2	9	S	QN	2	2	9	Q	9	CN	9	1	CN	2	S	S	QN.	QN	9	Q	Q	R	S	Q	QN	Q	Q		QN.	Q	Q
Analyte Description	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /		Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2.4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,0]pyrene	Benzo[b] fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k] fluoranthene	Acenaphthylene
CAS No.	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	29-00-5	79-01-6		79-34-5				100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	8-96-807
Meth/ Matrix	/S0MD															/90MN																												
Lab Lab Anly. No.	PC 74780																																											
Sample Date	11-MAR-92																																											
Depth	6.0																																											
Field Sample No.	91818						•																																					

^{* -} Analyte Description has been truncated. See Data Dictionary

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999

4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Unknown compound 532

3-Nitroaniline Oil of mirbane

99-09-2

Site Type ----

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91 24-0CI-

24-001-94

	Frag		~	2
4 1 2 1	Meas Codes	1 1	UGI	UGL
	Conc.	:	10	10
3	Bool.	;	QN	QN
	Analyte Description	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chrysene	Benzo[a]pyrene
	CAS No.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	218-01-9	50-32-8
Meth/	Matrix	1 1 1 1	/90MN	
Lab	Lab Anly. No.		PC 74780	
Sample	Date		6.0 11-MAR-92	
	Depth	•	0.9	
Field	Sample No.		91818	
Site	2		91818	
۸.	4.			

1	1111111		;		1
/90Wn	218-01-9	Chrysene	CN	10	1163
	50-32-8	Benzo[a]pyrene	, C	10	
	51-28-5	2,4-Dinitrophenol	2	20	151
	53-70-3	Dibenz[ah]anthracene / 1,2:5,6-	Q	10	ngr Ngr
		Dibenzanthracene			ļ !
	534-52-1	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	Q.	50	NGL
	1	dinitrophenol			
	541-73-1	1,3-Dichlorobenzene	S	10	UGL
	26-55-3	Benzo[a]anthracene	Q	10	ngr
	29-50-7	3-Methyl-4-chlorophenol / 4-Chloro-3-	Q.	10	UGL
		cresol / 4-Chloro-3-m*			ı I
	606-20-2	2,6-Dinitrotoluene	QN	10	ngr
	621-64-7	N-Nitrosodi-n-propylamine	Q	10	ngr
	65-85-0	Benzoic acid	ND	20	Ten
	67-72-1	Hexachloroethane	Q	10	lgn ngr
	7-47-4	Hexachlorocyclopentadiene	Q.	10	ngr
	78-59-1	Isophorone	QN QN	10	T9N
	83-32-9	Acenaphthene	QN QN	10	len
	84-66-2	Diethyl phthalate	QN	10	190
	84-74-2	Di-n-butyl phthalate	QN	10	l Jon
	85-01-8	Phenanthrene	QN	10	l go
	85-68-7	Butylbenzyl phthalate	Q.	10	T9N
	86-30-6	N-Nitrosodiphenylamine	Q	10	ngı
	86-73-7	Fluorene / 9M-Fluorene	Q	10	Ner
	87-68-3	Hexachlorobutadiene / Hexachloro-1,3-	Q	10	T9n
		butadiene			
	87-86-5	Pentachlorophenol	QN	50	NGL
	88-06-2	2,4,6-Trichlorophenol	Q.	10	UG.
	88-74-4	2-Nitroaniline	Q.	50	nci.
	88-75-5	2-Nitrophenol	Q	10	N GI.
	91-20-3	Naphthalene / Tar camphor	QN QN	10	UGL
	91-57-6	2-Methylnaphthalene	ND	10	UGI.
	91-58-7	2-Chloronaphthalene	QN QN	10	ngr
	91-94-1	3,3'-Dichlorobenzidine	QN ON	20	UGI.
	95-48-7	o-Cresol / 2-Cresol / 2-Methylphenol	QN ON	10	ng.
	95-50-1	1,2-Dichlorobenzene	QN QN	10	ner.
	95-57-8	2-Chlorophenol	QN	10	UGL
	95-95-4	2,4,5-Trichlorophenol	QN	50	ner
	98-95-3	Nitrobenzene / Essence of mirbane /	ND	10	ner
		Oil of mirbane			

* - Analyte Description has been truncated. See Data Dictionary

25

Field Sample No.

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCI-

24-0CT-94

	Sample		Lab	•	. Dans dans	14 000 t3	Meas.	_	Unit	Flag	Data
Depth	Date	Lab	An		CAS No.	Analyte Description	Bool.		Meas.	Codes	Qualis
	74	: 3	•				1 1 1 1 1				
0.0	11-MAK-92	<u>ر</u>	14/80	UMU6/	118-04-7	Unknown compound 65! 2 / Kitrimitratalusma / almha-	-	50 210	ngr He	Jo	
				/cruo		Trinitrotoluene	-);;	100		
					121-14-2	2,4-Dinitrotoluene	1	.321	UGL		
					121-82-4	RDX / Cyclonite / Hexahydro-1,3,5-	רו	.653	NGL		
						trinitro-1,3,5-triazine *					
					2691-41-0	Cyclotetramethylenetetranitramine	Lĭ	2.29	NGL.		
					479-45-8	Tetryl / N-Methyl-N,2,4,6-	רו	1.29	ngr		
						tetranitroaniline / Nitramine / *					
					55-63-0	Nitroglycerine / 1,2,3-Propanetriol	LT	3.2	NGL		
						trinitrate					
					606-20-2		-	.64	ner		
					78-11-5	PETN / Pentaerythritol tetranitrate /	-1	5.02	ng r		
					t t	2,2-Bis[(nitrooxy)me*	!	•			
					88-72-5	2-Nitrotoluene	<u>_</u>	949.	ner		
					99-08-1	3-Nitrotoluene	11	.492	UG!		
					99-35-4	1,3,5-Trinitrobenzene	7	.517	NGL		
					0-59-66	1,3-Dinitrobenzene	11	.319	NGL		
					0-66-66	4-Nitrotoluene	7	.338	UGI.		
			74799	SD08/	7440-38-2	Arsenic	1	6.01	NGL		
6.0	6.0 11-MAR-92	PC	24799	/208S	2439-97-6	Mercury	LŢ	.74	UGL		
				SD08/	7439-92-1	Lead		28	UGL		
					7440-28-0	Thallium	11	2.5	NGL		
					7782-49-2	Selenium	1	14.9	UGL		
				\$\$15/	7429-90-5	Aluminum		13700	UGL		
					7439-89-6	Iron		5 70 00	ngr		
					7439-92-1	Lead	LT	100	NGL		
					7439-95-4	Magnesium		1470	UGI.		
					7439-96-5	Manganese		2900	UGL		
					7439-98-7	Molybdenum	11	30.9	190		
					7440-02-0	Nickel	ר	63.1	ner		
					2-60-0552	Potassium	11	1250	ngı		
					7440-22-4	Silver	L	12.5	UGI.		
					7440-23-5	Sodium		3340	nei		
					7440-28-0	Thallium	LT	100	UGL		
					7440-36-0	Antimony	L	37.1	UGI.		
					7440-39-3	Barium		230	UGL		
					7-11-7	Beryllium	11	2.5	UGL		
					7440-43-9	Cadmium	11	2	UGL		
					7440-47-3	Chromium		42.7	UGL		
					7440-48-4	Cobalt		33.5	UGI		
					7440-50-8	Copper		23.1	NGL		
					7440-62-2	Vanadium		42.5	NGL		
					2440-66-6	Zinc		491	NGL		

918180

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-0CT-

24-0CT-94

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Data Quals	, , ,																																																	
Flag Codes	1					œ	œ	:	٥	¥		œ	Ω.	:	۵	۱ ک	×	~		Ω:	:	٥	۲		~		~	~	۵ ۵	۲ :	×	œ	~	~	2	: 02	۵ ۵	۵ :	۷ د	× 6	¥	~	œ	~	:	Ω	∠ م	2 د	×	œ
Unit Meas.	1000	ים מ	ner	ner N	UGL	ner	NGL	1	5	Cer		กอน	CGL	!	1311	מפר	NGL	UGL		ner] 	1011	Our		NGL		NGL	ner	5 5	รี่ อี	NGL	NGL	NGL	NGL	151	: ::::::::::::::::::::::::::::::::::::	<u> </u>	j =	55	J 00	OGL	NGL	NGL	NGL		2	g =	3 5	ם מו	UGL
Conc.	4170	- - - -	ر د د	7.47	8.17	'n	Δ.		ď	`		2	10		ď	١, ١	ر ،	2		2	ı	ď	1	ı	٠		2	10	<u> </u>	2.	ר ז	2	2	10	10	: =) () 	י ע	ט ר	וח	2	2	50		ď	· 10	, 5	⊇ ເ	٠
Meas. Bool.	:	,	_	!		9	Q		S	į		Ş	Q		Ş	2 4	Q :	Q		ą	ļ	S	Ē Ž	9	Q		9	ą	5	2 4	€ :	Ş	Q	Q	QN	S	9	9 5	2	5 5	ž :	ð	ş	S		Q	2	! 5	2 9	3
Analyte Description	Calcium			Similar monspecific	Lyanide	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1.3-Dichloropropylene / cis-1 3-	Dicht propresson	Dichiologi opene	1,2-Dichloroethane	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Ohlombon on American	circl operizerie / monoculor openzene	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1.2-Dichloroethylene / cis-1.2-	Dichlocothene	Promo-4 2-Night progety: last / trees	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	(h) 000 form		Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfida	Bronoform	21 Office of 100	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone		ו לו לב וו וכעומו.מפועמופ
CAS No.	7440-70-2	2 07 - 2822	1707-55-8	57-12-E	100 14 1	100-41-4	100-42-5		10061-01-5			107-06-2	108-10-1		108-88-3	108.00.7	120, 70, 1	1-95-57		127-18-4		156-59-2		156-60-5	0-00-001		56-23-5	591-78-6	67-64-1	47-66-3	2, 7,	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75.37.1	4-17-51	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	70-07	72.00-7
Meth/ Matrix	ss15/	•	15137	1002	/202/	UMU5/																																												
Lab Lab Anly. No.	PC 74799																																																	
Sample Date	11-MAR-92																																																	
Depth	6.0																																																	
Field Sample No.	91B18D																																																	

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

Field Sample Sample Sample No. Depth Date 918180 6.0 11-MAR-92

Site ID ----

Site Type

Trichloroethylene / Trichloroethene / ND Ethinyl trichloride / T* Tetrachloroethane / 1,1,2,2 Tetrachloroethane / 1,1,2,2 Tetrachloroethane / 1,1,2,2 Tetrachloroethane / Acetylene * Xylenes, total combined Xylenes, total combined Tylenes, total combined Xylenes, total combined Trichlorobene Second / 4-Cresol / 4-Methylphenol ND Thenol / Carbolic acid / Phenic acid ND Thenol / Carbolic acid / Phenic acid ND Sis(2-chlorobenzene ND Sis(2-chloroethoxy) methane Sis(2-chloroethoxy) methane ND Thenol / Carbolic acid / Phenic acid ND Sis(2-chloroethoxy) methane ND Thenol / Carbolic acid / Phenic acid ND Sis(2-chloroethoxy) methane ND Thenol / Carbolic acid / Phenic acid ND Sis(2-chloroethoxy) methane ND Thenol / Carbolic acid / Phenic acid ND Sis(2-chloroethoxy) methane ND Therachlorobenzene ND Therachlorobenzene ND Sis(2-chloroethoxy) methane ND Therachlorobenzene ND Therachlorobenzene ND Therachlorophenol ND Sis(2-chloroethoxy) methane ND Sis(2-chloroethoxy) methane ND Therachlorophenol ND Sis(2-chloroethoxy) methane ND Sis(2-chloroethox) methane ND Sis(2-chloroethox) methane ND Therachlorophenol ND Sis(2-chloroethox) methane ND Sis(2-chloroethox) methane ND Sisc(2-chloroethox) methane ND Sis(2-chloroethox) methane ND Sis(Lab Lab Anly. No.	Meth/ Matrix	_	Analyte Description	Meas. Bool.	Conc.	Unit Meas.	Flag Codes	Data Quals
Ethinyl trichloride /T* I etrachloroethane / 1,1,2,2- I fetrachloroethane / 1,1,2,2- I fetrachloroethane / 1,1,2,2- I fetrachloroethane / Acetylene * Xylenes, total combined trans-1,3-Dichloropropene 4-Nitrophenol Benzyl alcohol 2,4-Dimethylphenol D-Cresol / 4-Cresol / 4-Methylphenol ND 2,4-Dichlorobenzene ND 4-Chloroisopropyl) ether ND 8 is(2-chloroethoxy) methane ND ND ND ND ND ND ND ND ND ND ND ND ND	UM05/		79-01-6		: Q		199	. ~	1
Tetraculousetimary / 1,1,2,2 Tetraculousetimary / 1,1,2,2 Xylenes, total combined trans-1,3-Dichloropropene 4-Nitrophenol Benzyl alcohol 2,4-Dimethylphenol Pcresol / 4-Cresol / 4-Methylphenol 1,4-Dichlorobaniline Bis(2-chlorobaniline Bis(3-72-02		: 9		1 5	: 4	
Xylenes, total combined trans-1,3-Dichloropropene trans-1,3-Dichloropene 4-Nitrophenol Benzyl alcohol 2,4-Dimethylphenol 1,4-Dichlorobenzene 1,4-Dichlorobenzene 4-Chloroaniline ND 4-Chloroaniline ND 1,4-Dichlorobenzene ND 1,4-Dichloropenyl) ether ND 1,4-Dichloropenyl) ether ND 1,2-Chloroisopropyl) ether ND 1,2-Chloroethoxy) methane ND 1,2,4-Trichlorobenzene ND 1,2,4-Trichlorobenzene ND 1,2,4-Dinitrotoluene ND 1,2,4-Dinitrotoluene ND 1,2,4-Dinitrotoluene ND 1,2,4-Dinitrotoluene ND 2,4-Dinitrotoluene ND 2,4-Dinitrotoluene ND 1,2,4-Dinitrotoluene ND 2,4-Dinitrotoluene ND 2,4-Dinitrotoluene ND 1,2,4-Dinitrotoluene ND 2,4-Dinitrotoluene) to		2	n	Oler	¥		
trans-1,3-Dichloropropene 4.Nitroaniline 4.Nitroaniline 4.Nitrophenol Benzyl alcohol 2,4-Dimethylphenol 1,4-Dichlorobenzene 4Dichlorobenzene 4Chloroaniline Bis(2-chlorospropyl) ether ND Phenol / Carbolic acid / Phenic acid ND Phenol / Carbolic acid / Phe* 81ss(2-chloroethyv) mether ND Phenylic acid / Phe* 81ss(2-chloroethyv) mether ND Phenylic acid / Phe* 81ss(2-chloroethyv) mether ND Phenylic acid / Phe* 81ss(2-chloroethyv) mether ND Phenylic acid / Phe* 81ss(2-chloroethyv) mether ND 1.2,4-Trichlorobenzene ND 2,4-Dinitrotoluene 81ss(2-chlorophenol 2,4-Dinitrotoluene ND 2,4-Dinitrotoluene ND 2,4-Dinitrotoluene ND 2,4-Dinitrotoluene ND Benzoldeflphenanthene / Pyrene ND 2,4-Dinitrotoluene ND Benzoldil,2,3-C,Dlpyrene ND Benzoldil,2,3-C,Dlpyrene Fluoranthene Fluoranthene Fluoranthene Fluoranthene ND Chrysene Renzolalpyrene Acenaphthylene ND Dibenzolalpyrene Chrysene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- ND Dibenzolalpyrene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- ND Olibenzolalpyrene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- ND Olibenzolalpyrene Acholinitro-2-cresol / 2-Methyl-4,6- ND Olibenzolalpyrene Acholin				Xylenes, total combined	Q.	2	NGL	œ	
4-Nitroaniline 4-Nitrophenol 8-Banzyl alcohol 2,4-Dinitrophenol 9-Cresol / 4-Cresol / 4-Methylphenol 1,4-Dichlorobenzene 4-Chloroaniline 8 is(2-chlorosisopropyl) ether ND Phenol / Carbolic acid / Phenic acid ND Phenol / Phenic acid ND Phenol / Carbolic acid ND Phenol / Carbolic acid ND Phenol / Carbolic acid ND Phenol / Phenic acid ND Phenol / Carbolic acid ND Phenol / Phenic acid ND Phenol / Carbolic acid ND Phenol / Carbolic acid ND Phenol / Phenic acid ND				trans-1,3-Dichloropropene	Q	2	NGL	œ	
4-Nitrophenol Benzyl alcohol 2,4-Dimethylphenol p-Cresol / 4-Methylphenol 1,4-Dichlorobenzene 4-Chloroaniline Bis(2-chloroethyl) ether ND Phenol / Carbolic acid / Phenic acid ND Phenol / Carbolic acid / Phenic acid ND Phenol / Carbolic acid / Phenic acid ND Phenol / Carbolic acid / Phenic acid ND Phenol / Carbolic acid / Phenic acid ND Sis(2-chloroethyl) ether Bis(2-chloroethyl) ether ND Bis(2-chloroethyl) ether ND ND Anthracene Anthracene ND Din-octyl phthalate ND Anthracene 1,2,4-Trichlorobenzene ND Dibenzofuran ND Benzoldeljphenanthrene / Pyrene ND Dibenzofuranthene Benzoldeljphenanthene Fluoranthene Fluoranthene Fluoranthene Benzols/Ifluoranthene Fluoranthene Fluoranthene Benzols/Ifluoranthene Fluoranthene Benzols/Ifluoranthene ND Benzols/Ifluoranthene Acenaphthylene ND Dibenzanthracene 4,6-Dinitrophenol Dibenzanthracene 4,6-Dinitrophenol Olibenzanthracene 4,6-Dinitrophenol Olibenzanthracene 4,6-Dinitrophenol Olibenzanthracene 4,6-Dinitrophenol	/90WD		100-01-6	4-Nitroaniline	웆	20	NGL	œ	
Benzyl alcohol 2,4-Dimethylphenol 1,4-Dichlorobenzene 4-Chloroaniline 8 is(2-chloroaniline 8 is(2-chloroaniline 8 is(2-chloroethyl) ether 8 is(2-chloroethyl) phthalate 8 is(2-chloroethyl) phthalate 8 is(2-chloroethyl) phthalate 8 is(2-chloroethyl) phthalate 8 is(2-chloroethoxy) methane 8 is(2-chloroethoxy) methane 8 is(2-chloroethoxy) phthalate 8 is(2-chloroethoxy) phthalate 8 is(2-chloroethoxy) phthalate 8 is(2-chloroethoxy) phthalate 8 is(2-chloroethoxy) phthalate 8 is(2-chloroethoxy) phthalate 8 is(2-chlorophonol 1,2,4-Trichlorobenzene 8 is(2-chlorophonol 1,2,4-Dichlorophonol 2,4-Dichlorophonol 8 is (2-chloroanthene 8 is (2-chloroanthene 8 is (2-chloroanthene 8 is (2-chloroanthene 8 is (2-chloroanthene 8 is (2-chloroanthene 9 is (2-chloroanthene 1,2,5,6-Dichloroanthene 1,2,5,6-Dichloroanthene 1,2,5,6-Dichloroanthene 1,2,5,6-Dichloroanthene 1,2,5,6-Dichloroanthene 1,2,5,0 initrophenol 2,4-Dichloroanthene 4,6-Dichloroanthene 8,7-Dichloroanthene 9 is a conditionathene 9 is a conditionathene 9 is a conditionathene 9 is a conditionathene 9 is a conditionathene 9 is a conditionathene 9 is a conditionathene 9 is a conditiona			100-02-7	4-Nitrophenol	쥪	20	ner	œ	
2,4-Dimethylphenol p-Cresol / 4-Cresol / 4-Methylphenol ND 1,4-Dichlorobenzene 4-Chloroaniline 8is(2-chloroaniline Phenol / Carbolic acid / Phenic acid ND 8is(2-chloroethyl) ether ND 8incothyl phthalate ND 8incothyl phthalate ND 8incothyl phthalate ND 8incothyl phthalate ND 8incothyl phthalate ND 8incothyl ene ND 8in			100-51-6	Benzyl alcohol	2	1 0	NGL	œ	
p-Cresol / 4-Cresol / 4-Methylphenol ND 1,4-Dichlorobenzene ND 1,4-Dichlorobenzene ND 1,4-Dichlorobenzene ND 8 is(2-chloroaniline ND Phenol / Carbolic acid / Phenic acid ND Phenol / Carbolic acid / Phenic acid ND / Phenylic acid / Phe* 8 is(2-chloroethyl) ether ND 8 is(2-chloroethyl) phthalate ND 9 i-n-octyl phthalate ND 1,2,4-Trichlorobenzene ND 1,2,4-Trichlorobenzene ND 2,4-Dichlorophenol ND 2,4-Dichlorophenol ND 2,4-Dichlorophenol ND 1,2,4-Trichlorophenol ND 1,2,4-Trichlorophenol ND 1,2,4-Trichlorophenol ND 1,2,4-Dinitrotoluene ND 8 enzo[def]phenanthrene / Pyrene ND 1 inderbyl phthalate ND 1 inderbyl phthalate ND 1 inderbyl phthalate ND 1 inderbyl phthalate ND 1 inderbyl phthalate ND 1 inderbyl fluoranthene ND 1 inderbyl fluoranthene ND 1 inderbyl fluoranthene ND 1 inderbyl fluoranthene ND 1 inderbyl fluoranthene ND 1 inderbyl fluoranthene ND 2,4-Dinitrophenol ND 1 inderzanthracene 4,6-Dinitrophenol 4,6-Dinitrophenol			105-67-9	2,4-Dimethylphenol	QN	10	NGL	∝	
1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Chloroaniline 8 is(2-chloroisopropyl) ether ND 7 Phenylic acid / Phe* 8 is(2-chloroethyl) ether 8 is(2-chloroethyl) ether 8 is(2-chloroethyl) ether 8 is(2-chloroethyl) phthalate 8 is(2-chloroethyl) phthalate 9 is(2-chloroethoxy) methane 8 is(2-chloroethoxy) methane 8 is(2-chloroethoxy) methane 9 is(2-chloroethoxy) methane 1,2,4-Trichlorobenzene 1,2,4-Dinitroclouene 8 enzofdeflphenanthrene / Pyrene ND 1,2,4-Trichlorophenol 1,2,4-Dinitroclouene 8 enzofghilperylene ND 1 indenof1,2,3-C,Dlpyrene ND 1 indenof1,2,3-C,Dlpyrene ND 1 indenof1,2,3-C,Dlpyrene ND 1 indenof1,2,3-C,Dlpyrene ND 1 indenof1,2,3-C,Dlpyrene ND 1 indenof1,2,3-C,Dlpyrene ND 2 indenof1,2,3-C,Dlpyrene ND 2 indenof1,2,3-C,Dlpyrene ND 3 indenof1,2,3-C,Dlpyrene ND 4 indenof1,2,3-C,Dlpyrene ND 2 indenof1,2,3-C,Dlpyrene ND 3 indenof1,2,3-C,Dlpyrene ND 4 indenof1,2,3-C,Dlpyrene ND 5 indenof1,2,3-C,Dlpyrene ND 6 indenof1,2,3-C,Dlpyrene ND 7 indenof1,2,3-C,Dlpyrene ND 8 indenof1,2,3-C,Dlpyrene ND 9 indenof1,2,3-C,Dlpyren			106-44-5	p-Cresol / 4-Cresol / 4-Methylphenol	S	10	UGL	œ	
4-Chloroaniline Bis(2-chloroapyl) ether ND Phenol (Carbolic acid / Phenic acid ND / Phenylic acid / Phe* Bis(2-chloroethyl) ether Bis(2-chloroethyl) ether Bis(2-chloroethyl) phthalate Bis(2-chloroethyl) phthalate ND Di-n-octyl phthalate ND Di-n-octyl phthalate ND Anthracene Anthracene Anthracene I,2,4-Trichlorophenol ND Dimethyl phthalate ND Dimethyl phthalate ND Dimethyl phthalate ND Dimethyl phthalate ND Benzo[def]phenanthene ND Dimethyl phthalate ND Benzo[def] fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Benzo[x] fluoranthene ND Benzo[x] fluoranthene ND Benzo[x] fluoranthene ND Benzo[x] fluoranthene ND Benzo[x] fluoranthene ND Benzo[x] fluoranthene ND Benzo[x] fluoranthene ND Chrysene ND Chrysene ND Dibenz(x] fluoranthene ND Acenaphthylene Of Chrysene ND Dibenz(x] fluoranthene ND Acenaphthylene Of Chrysene ND Dibenz(x] fluoranthene ND Dibenz(x] fluoranthene ND Of Chrysene ND			106-46-7	1,4-Dichlorobenzene	S	10	ner	œ	
Bis(2-chloroisopropyl) ether Bis(2-chloroethyl) ether Bis(2-chloroethyl) ether Bis(2-chloroethyl) phthalate Bis(2-chloroethyl) phthalate Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane ND Di-n-octyl phthalate ND Hexachlorobenzene Anthracene Anthracene 1,2,4-Dichlorophenot 2,4-Dichlorophenot Benzoldeflphenarthrene / Pyrene ND Dibenzofuran Benzoldeflphenarthene ND Benzolghilperylene Indeno[1,2,3-C,Dlpyrene ND Benzolghilperylene Indeno[1,2,3-C,Dlpyrene Benzollfluoranthene Fluoranthene Fluoranthene Benzollfluoranthene Fluoranthene Benzollfluoranthene ND Benzolljfluoranthene ND Benzolljfluoranthene ND Benzolljphenoll Acenaphthylene Chrysene ND Dibenzenthracene 4,6-Dinitrophenol dinitrophenol dinitrophenol			106-47-8	4-Chloroaniline	용	10	ner	œ	
Phenol / Carbolic acid / Phenic acid ND / Phenylic acid / Phe* Bis(2-chloroethy!) ether ND Bis(2-chloroethy!) pthalate ND Bis(2-chloroethoxy) methane ND Di-n-octy! phthalate ND Di-n-octy! phthalate ND Di-n-octy! phthalate ND Di-n-octy! phthalate ND Anthracene 1,2,4-Dinitroluene ND Dibenzoldef]phenanthrene / Pyrene ND Dibenzoldef]phenanthrene / Pyrene ND Dibenzoldef]phenanthrene / Pyrene ND Dibenzoldef]phenanthrene / Benzoldef]phenanthene Renzoldef]phenanthene ND Benzoldef]phylene ND Benzoldef]phylene ND Benzoldef]phylene ND Benzoldef]phylene ND Benzoldef]phylene ND Benzoldef]phylene ND Benzoldef]phylene ND Benzoldef]phylene ND Benzoldef]phylene ND Benzoldef]phylene ND Chrysene ND Gibenz[ah]anthracene / 1,2:5,6- ND Dibenzanthracene / 4,6-Dinitrophenel			108-60-1	Bis(2-chloroisopropyl) ether	Q	10	ner	œ	
/ Phenylic acid / Phe* Bis(2-chloroethyl) ether Bis(2-chloroethyl) ether Bis(2-chloroethyy) methane Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Di-n-octyl phthalate ND Hexachlorobenzene Anthracene 1,2,4-Trichlorobenzene ND 2,4-Dinitrophenol Dimethyl phthalate ND Benzo[dai]perylene ND Benzo[dai]perylene ND Benzo[dai]perylene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Benzo[a]pyrene ND Benzo[a]pyrene Chrysene Benzo[a]pyrene ND Acenaphthylene ND Chrysene Benzo[a]pyrene Acenaphthylene ND Acenaphthylene ND Dibenz[a]anthracene 4,6-Dinitrophenol Dibenzanthracene 4,6-Dinitrophenol dinitrophenol			108-95-2	Phenol / Carbolic acid / Phenic acid	QN.	10	ner	~	
Bis(2-chloroethyl) ether Bis(2-chloroethyl) ether Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Bis(2-chloroethoxy) methane Di-n-octyl phthalate ND 1,2,4-Trichlorobenzene ND 2,4-Dinitrophenol Dimethyl phthalate ND Benzo[def]phenanthrene / Pyrene ND Dimethyl phthalate ND Benzo[def]phenanthene ND Benzo[dhi]perylene ND Benzo[b]fluoranthene Fluoranthene H ND Benzo[a]pyrene ND Ohbenzo[a]pyrene ND Ohbenzonthracene 4,6-Dinitrophenol dinitrophenol				/ Phenylic acid / Phe*				:	
Bis(2-chloroethoxy) methane Bis(2-ethylhexyl) phthalate Di-n-octyl phthalate ND Hexachlorobenzene Hexachlorobenzene Anthracene 1,2,4-Trichlorophenol 2,4-Dinitrotoluene Benzo[def]phenanthrene / Pyrene ND Dimethyl phthalate ND Benzo[dhi]perylene ND Benzo[dhi]perylene ND Benzo[dhi]perylene ND Benzo[dhi]perylene ND Benzo[fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Fluoranthene ND Benzo[x]fluoranthene			111-44-4	Bis(2-chloroethyl) ether	Q	10	NGL	~	
Bis(2-ethylhexyl) phthalate Di-n-octyl phthalate Hexachlorobenzene Anthracene 1,2,4-Trichlorophenol 2,4-Dinitrotoluene Benzo[def]phenanthrene / Pyrene Dimethyl phthalate Dimethyl phthalate Dimethyl phthalate ND Benzo[ghi]perylene Indeno[1,2,3-C,D]pyrene ND Benzo[b]fluoranthene Fluoranthene HND Benzo[J]fluoranthene ND Benzo[J]fluoranthene ND Benzo[J]fluoranthene ND Benzo[J]fluoranthene ND Ghrysene ND Acenaphthylene ND Oibenzonthracene 4,6-Dinitrophenol dinitrophenol dinitrophenol			111-91-1	Bis(2-chloroethoxy) methane	Q.	10	ner	~	
Di-n-octyl phthalate Hexachlorobenzene Anthracene 1,2,4-Trichlorobenzene ND 2,4-Dichlorophenol ND 2,4-Dichlorophenol ND Dimethyl phthalate ND Dimethyl phthalate ND Dimethyl phthalate ND Dimethyl phthalate ND Dimethyl phthalate ND Benzolghijperylene ND Benzolghijperylene ND Benzolghiloranthene Fluoranthene Fluoranthene Fluoranthene ND Benzollyluoranthene ND Benzollyluoranthene ND Benzollyluoranthene ND Benzollyluoranthene ND Benzollyluoranthene ND Dimethylene ND Acenaphthyle			117-81-7	Bis(2-ethylhexyl) phthalate	R	9	NGL	· œ	
Hexachlorobenzene Anthracene 1,2,4-Trichlorobenzene ND 2,4-Dinitrophenol ND 2,4-Dinitrophenol ND ND ND ND ND ND ND ND ND ND ND ND ND			117-84-0	Di-n-octyl phthalate	QN.	10	ner	. ∝	
Anthracene 1,2,4-Trichlorobenzene 1,2,4-Dichlorophenol 2,4-Dinitroohenol 2,4-Dinitroohenol 3,4-Dinitroohenol			118-74-1	Hexachlorobenzene	QN	<u></u> 2	NGL	~	
1,2,4-Trichlorobenzene 2,4-Dichlorophenol 2,4-Dinitrotoluene Benzoldeflphenanthrene / Pyrene ND Dibenzofuran Benzolghijperylene Indeno[1,2,3-C,D]pyrene Benzolblfluoranthene Fluoranthene Fluoranthene Fluoranthene Benzolklfluoranthene ND Benzolklfluoranthene ND Benzolklfluoranthene Fluoranthene Fluoranthene ND Benzolklfluoranthene ND Benzolklfluoranthene ND Benzolklfluoranthene ND Dibenzolklfluoranthene ND Acchaphthylene ND Chrysene Benzolalpyrene ND Chrysene Benzolalpyrene ND Ochrysene Benzolalpyrene Acchaphthylene ND Dibenzonthracene A,6-Dinitrophenol Dibenzanthracene A,6-Dinitrophenol Dibenzanthracene A,6-Dinitrophenol			120-12-7	Anthracene	Q	10	ner	~	
2,4-Dichlorophenol 2,4-Dinitrotoluene ND Benzoldeflohenarthrene / Pyrene ND Dibenzofuran ND Benzolghijperylene Indeno[1,2,5-C,D]pyrene ND Benzolbifluoranthene Fluoranthene Fluoranthene Fluoranthene ND Benzolkifluoranthene ND Dibenzolkifluoranthene ND Acenaphthylene ND Chrysene Benzolalpyrene ND Offrysene Chrysene ND Offrysene Benzolalpyrene ND Offrysene Acenaphthylene ND Dibenzonthracene A,6-Dinitrophenol Dibenzanthracene A,6-Dinitrophenol Dibenzanthracene A,6-Dinitrophenol			120-82-1	1,2,4-Trichlorobenzene	2	10	NGL	œ	
2,4-Dinitrotoluene Benzoldef]phenanthrene / Pyrene ND Dimethyl phthalate ND Benzolghi]perylene Indeno[1,2,5-C,D]pyrene Benzolbjfluoranthene Fluoranthene Fluoranthene Fluoranthene Chrysene Benzolxjfluoranthene ND Benzolxjfluoranthene ND Benzolxjfluoranthene ND Benzolxjfluoranthene ND Benzolxjfluoranthene ND Benzolxjfluoranthene ND Benzolxjfluoranthene ND Dibenzolxjfluoranthene ND Acenaphthylene ND Dibenzolxjfluoranthene ND Acenaphthylene ND Dibenzolxjfluoranthene ND Dibenzolxjfluoranthene ND Dibenzolxjfluoranthene A,6-Dinitrophenel dinitrophenel			120-83-2	2,4-Dichlorophenol	Q.	10	ngr	~	
Benzo[def]phenanthrene / Pyrene ND Dimethyl phthalate ND Dibenzofuran ND Dibenzofuran ND Benzo[ghi]perylene ND Benzo[ghi]perylene ND Benzo[fluoranthene / 3,4- ND Benzo[fluoranthene / 3,4- ND Benzo[fluoranthene / 3,4- ND Benzo[fluoranthene / 3,4- ND Benzo[fluoranthene / 3,4- ND Benzo[fluoranthene / 1,2- ND Dibenz[fluoranthene / 1,2-5,6- ND Dibenz[fluoranthene / 1,2-5,6- ND Dibenz[fluoranthene / 1,2-5,6- ND Dibenz[fluoranthracene / 1,2-5,6- ND Dibenz[fl			121-14-2	2,4-Dinitrotoluene	Q	10	חפר	œ	
Dimethyl phthalate Dibenzofuran Dibenzofuran Benzofghijperylene Indeno[1,2,3-C,D]pyrene Benzofluoranthene Fluoranthene Fluoranthene Fluoranthene Benzoflyfluoranthene Fluoranthene Chrysene Benzofalpyrene ND Acenaphthylene Chrysene Benzofalpyrene ND Acenaphthylene Oirysene Benzofalpyrene ND Acenaphthylene Oirysene ND Oirysene ND Oirysene ND Oirysene ND Oirysene ND Oirysene ND Oirysene ND Oirysene An Oirysene ND Oirysene ND Oirysene An Oirysene Oirysene ND Oirysene Oirysene ND Oirysene			129-00-0	<pre>8enzo[def]phenanthrene / Pyrene</pre>	Q	10	NGL	~	
Dibenzofuran Benzo[ghi]perylene Indeno[1,2,3-C,D]pyrene Indeno[1,2,3-C,D]pyrene Benzo[b]fluoranthene I fluoranthene Benzo[X]fluoranthene I fluoranthene Benzo[X]fluoranthene I fluoranthene Benzo[X]fluoranthene I fluoranthene		131-11-3	Dimethyl phthalate	2	10	NGL	~		
Benzo[ghi]perylene Indeno[1,2,3-C,D]pyrene Benzo[b]fluoranthene / 3,4- Benzofluoranthene Fluoranthene Benzofluoranthene Acenaphthylene Chrysene Benzo[a]pyrene Chrysene Benzo[a]pyrene Benzo[a]pyrene Chrysene Benzo[a]pyrene Benzo[a]pyrene A,6-Dinitrophenol Dibenz[ah]anthracene / 1,2:5,6- ND Dibenzanthracene A,6-Dinitro-2-cresol / 2-Methyl-4,6- ND Dipenzenthracene			132-64-9	Dibenzofuran	Q	10	ngr	~	
Indeno[1,2,3-C,D] pyrene Benzo[b] fluoranthene / 3,4- Benzofluoranthene Fluoranthene Benzofluoranthene Chrysene Chrysene Benzola] pyrene 2,4-Dinitrophenol Dibenz[ah]anthracene / 1,2:5,6- ND Oibenzanthracene 4,6-Dinitrophenol dinitrophenol			191-24-2	Benzo[ghi]perylene	9	10	ner	~	
Benzo[b]fluoranthene / 3,4- ND Benzofluoranthene Fluoranthene Benzofluoranthene MD Senzo[k]fluoranthene MD Chrysene Benzo[a]pyrene Chrysene Dibenz[ah]anthracene / 1,2:5,6- ND Dibenzanthracene 4,6-Dinitrophenel Dibenzanthracene A,6-Dinitrophenel			193-39-5	Indeno[1,2,3-C,D]pyrene	9	10	ngi	~	
Benzofluoranthene Fluoranthene Renzofkjfluoranthene Acenaphthylene Chrysene Benzofajpyrene Chrysene Benzofajpyrene Cj.4-Dinitrophenol Dibenzanthracene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- ND dinitrophenol			205-99-2	Benzo[b]fluoranthene / 3,4-	2	10	NGL	œ	
Fluoranthene Benzo(K) fluoranthene Acenaphthylene Chrysene Benzo[a] pyrene Chrysene Benzo[a] pyrene Chrysene Chrysene Benzo[a] pyrene Chrysene And Dibenz[ah] anthracene Chrysene Chrysene And Dibenz[ah] anthracene Chrysene And Dibenzanthracene				Benzofluoranthene					
Benzo[K]fluoranthene Acenaphthylene Chrysene Benzo[a]pyrene ND 2,4-Dinitrophenol Dibenz[ah]anthracene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- ND dinitrophenol			206-44-0	Fluoranthene	Q	10	NGL	~	
Acenaphthylene Chrysene Benzo[a] pyrene C,4-Dinitrophenol Dibenz[ah]anthracene / 1,2:5,6- ND Dibenzanthracene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- Dibenzenel			207-08-9	Benzo[k]fluoranthene	2	10	T9N	œ	
Chrysene Benzo[a] pyrene ND 2,4-Dinitrophenol Dibenz[ah]anthracene / 1,2:5,6- ND Dibenzanthracene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- ND dinitrophenol			208-96-8	Acenaphthylene	S.	10	NGL	~	
Benzo[a]pyrene 2,4-Dinitrophenol Dibenz[ah]anthracene / 1,2:5,6- ND Dibenzanthracene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- dinitrophenol			218-01-9	Chrysene	2	10	NGL	œ	
2,4-Dinitrophenol Dibenz[ah]anthracene / 1,2:5,6- ND Dibenzanthracene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- Dinitrophenol			50-32-8	Benzo[a] pyrene	2	10	ner	2	
Dibenz[ah]anthracene / 1,2:5,6- ND Dibenzanthracene / 4,6-Dinitro-2-cresol / 2-Methyl-4,6- ND dinitrophenol			51-28-5	2,4-Dinitrophenol	QN	20	וני	•	
Dibenzanthracene 4,6-Dinitro-2-cresol / 2-Methyl-4,6- ND dinitrophenol			53-70-3	Dibenz[ah]anthracene / 1,2:5,6-	S	10	ner	· œ	
4,6-Dinitro-2-cresol / 2-Methyl-4,6- ND dinitrophenol				Dibenzanthracene					
dinitrophenol			534-52-1	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	S	20	NGL	œ	
			541-73-1	dinitrophenol 1 3.nichlorobonzone	9	9	3	ć	
Reprofessors			56-55-3	Reprofessor to the contraction of the contraction o	2 5	5 5	100	× 4	

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-0CT-

24-001-94

Sample
Depth Date

Field Sample No. 1

Site Site Type ID

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Analyte Description	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	z,o-unitrototuene	N-Nitrosodi-n-propylamine	שפוולסור מרום היייי דו	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Rityl benzyl phthalate	Many thought promise and	Fluorene / Outfluorene	יותסופוופין אוו-גיתסופוופיים איז	hatedicorobutatione / Hexachloro-1,5-	Duragiene	Pentachlorophenol	2,4,6-Irichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2.4.5-Trichlorophenol	Nitrobenzene / Essence of mirhane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3.5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate
CAS NO.	2-05-65	606-30-3	2-02-000	65-85-0	67.77	1-21-10	7-25-11	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86.30-6	86-73-7	2-67-28	1-00-10	2 70 40	67-80-7	7-00-88	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	2-48-5	95-50-1	95-57-8	95-95-4	98-95-3		69-09-2			118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0	
Meth/ Matrix	/90WN																																			UM35/									
Lab Lab Anly. No.	PC 74799																																												

* - Analyte Description has been truncated. See Data Dictionary

Field Sample No.

Site Site Type ID

91819

91819

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCI-

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	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Analyte Description	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1.3.5-Trinitrobenzene	1.3-Dinitrobenzene	/- Nitroto 1000	יייק - אונו פרסומפופ - יייק	:	Nitrite, nitrate - nonspecific	Mercury	Lead	Thallium	Arsenic	Selenium	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silver	Sodia	That Lium	A5+ imon.	Anthiony	Barıum	Beryllium	Cadmium	Chromium	Cobalt	Copper	Vanadium	Zinc	Calcium	Selenium	Cyanide	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	1,2-Dichloroethane
	2 N 3 N 3	CAS NO.	606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	99-65-0	0-00-00	7/20-02-1	1 1 24 - 45 + 1	14/9/-55-8	0-14-4541	7439-92-1	0-82-044/	7440-38-2	7782-49-2	2429-90-5	2439-89-6	7439-92-1	7439-95-4	5-96-6272	7439-98-7	0-20-0772	7440-09-7	7-66-0772	2770-53-5	0-82-07/2	77.40 26-0	7440-30-0	7,40-04-0	J-14-044J	7440-43-9	7440-47-3	7-85-0552	2440-50-8	7440-62-2	9-99-0772	7440-70-2	7782-49-2	57-12-5	100-41-4	100-42-5		10061-01-5		107-06-2
•	Meth/	Mati IV	UW35/								/ 8003	, oo oo	/ 6003	28077	2D08/				SS15/W																							TY03/	UM05/					
	Lab	Auty. No.	66272								77.7000	76070	74780																					•														
	-	G :	PC									2	3																																			
	Sample	•	11-MAR-92										30-MAK-92																																			
	d tro	1	6.0									17.	0.7																																			

* - Analyte Description has been truncated. See Data Dictionary

Field Sample No. 1

Site Site Type ID WELL 91819

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

Dati Quats																																											
Flag Codes	. ~		× 1	<u>د</u> د	٤	~	:	02		×		×	œ	s	~	×	· ~	· c×	: 02	: 02	: 0	< 0c	ć oz	: 2	ć 0:	۵ ک	2 ک	٤	~	= ==	: 4	: ≃	: ~	£	œ	٤	v	· ~	~	· 04	œ	02	~
Unit Meas.	ngr	į	Oct	וני ה ה	3	ner	1	UGL		UGL		NGL	NGL	UGL	NGL	UGL	ner	NGL	151	len O	101	3 5] 	[5]] 	3 5	3 3	3	1911	ngn	Ten	ner	1911	3	131		ISI	OGL	UGL	ner	UGL	ngr	NGL
Conc.	10	L	Λ ι	υ ισ	`	7.		5		2		'n	10	13	2	7	Ŋ	10	10	10	10	<u>-</u> w	. 10	. 10	, г.	י יר	· ur		ις	Ŋ	10	:\	٠.		2		20	~	22	50	50	10	10
Meas. Bool.	S S	4	5 5	5 5)	Ð		ND		Q		N N	ND		S	S	Q.	N Q	Q	2	Q	9	2	2	S	Ş	Ş		QN	QN ON	ND	ND	QN		Q			Q	QN QN	ND	QN ON	Q.	Q.
Analyte Description	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Chlorobonaton / Monochlorobonaton	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1.1-Dichloroethane	1,1-Dichloroethylene / 1.1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1.1,2,2-	Tetrachloroethane / Acetylene *	Unknown compound 224	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol
CAS No.	108-10-1	108-88.2	108-00-7	124-48-1		127-18-4		156-59-2		156-60-5	1	56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5					100-01-6	100-02-7	100-51-6	105-67-9
Meth/ Matrix	UM05/																																							UM06/			
Lab . No.	PC 94986																																										
Sample Date	30-MAR-92																																										
. Depth	17.0																																										

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

Field Sample No. 1

Site Site Type ID

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Flag Codes	· ·	~	~	~	œ		œ	~	œ	~	œ	~	œ	œ	~	œ	œ	~	œ	œ		~	· ~	~	: ∝	· ~	:	~	~	œ		~	í	×	œ	×		~	~	œ	œ	œ	œ	œ
Unit Meas.	ngr	NGL	UGL	ner	UGL		NGL	חטר	NGL	UGI.	UGL	ายก	NGL	ner	NGL	NGL	ngi.	UGL	NGL	UGL		ner	T _D n	TON	ายก	185		UGL	UGL	UGI		UGL		UGL	ngr.	ner		ner	UGI.	Ton	NGL	UGL	NGL	ner
Conc.	10	10	10	10	10		10	10	10	10	10	10	10	10	10	10	10	10	10	10		10	10	10	10	10		10	20	10		50		⊇ ;	10	10		10	10	20	10	10	10	10
Meas. Bool.	<u> </u>	용	Q.	2	ş		9	2	Q	ş	QN Q	ð	Q	2	2	Q.	Q	S S	Q	Q		Q	Q	읒	QN ON	2		2	GN.	Š		Q	4	2 :	2	2		ð	Q.	Q	Q	Q	Q	Q
Analyte Description	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Benzo[b]fluoranthene / 3,4-	thene	Fluoranthene	Benzo(k) fluoranthene	Acenaphthylene	Chrysene	Chlorpyrifos / Phosphorothioic acid	0,0-diethyl 0-(3,5,6-t*	Benzo [a] pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	יייייייייייייייייייייייייייייייייייייי	Benzolajanthracene	5-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene
CAS No.	106-44-5	106-46-7	106-47-8	108-90-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	202-99-2		506-44-0	207-08-9	208-96-8	218-01-9	2921-88-2	i	50-32-8	51-28-5	53-70-3		534-52-1	57.1-77.1	27-127	20-33-3	7-05-65	4	2-02-909	621-64-7	65-85-0	67-72-1	7-24-11	78-59-1	83-32-9
Meth/ Matrix	/90WN																																											
Lab Anly. No.	PC 94986																																											
Sample h Date	M																																											
Depth	17.0																																											

* - Analyte Description has been truncated. See Data Dictionary

Site Type

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-0CI-

24-001-94

Dara Quals																																모			×		~ <u>c</u>	×		. <u>~</u>		£ .	4	<u>~</u>	×
Flag D Codes 0		~	~ :	~ -	~ -	~	~	~		~	~	~~		. ~					, .			× 0	_		~	~	~	10	: 0	S	10														
Unit Fl Meas. Co							UGI.				UGL F											ב ב								ngr s				UGI.	ngi	Ġ	ner	ner		.10ľ	131	OGL	J .	ner	ngr
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Conc.	:	o ;	2 5	5 5	5 5	2 ;	10	10		50	10	50	10	10		2 (2	2 5	5 5	5 5	5 5	- <u>F</u>	5 5	2	ŭ	Q ;	10	10	09	10	70	10	.319		. 321	.653	c c	67.7	1.29		3.2	77	. r.		979.	.492
Meas. Bool.		<u>2</u> :	2 9	2 5	2 9	Ž :	9	Q		Q	Q.	QN	QN	Q	Q	9	Ş	5	9	2	2 5	2 5	2	Ş	2 :	2	S					Ľ			_	<u>}</u>	- ! 	_	1	5	<u>-</u> -	: -	ī		רַ
Analyte Description	0.0+tv.	מוברוואו לוויתומומופרפ	Dhenanthrone	Buty/bonzy/ phtholoto	N-Withouthouthouthouthouthouthouthouthouthou		Fluorene / 94-Fluorene	Hexachlorobutadiene / Hexachloro-1,5-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3.3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1.2-Dichlorobenzene	2-Chlorophenol	2.4.5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of michana	3-Mitrosonilino	/ Depart Cold	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	Unknown compound 539	Unknown compound 560	Unknown compound 565	Unknown compound 598	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	thinition 2 Estainis *	Chalotototototoustkulonototonitaaniin	cyclotetramethytenetetramite	letry(/ N-Methy(-N, Z, 4, 6-	retranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	2.6-Dinitrotoluene	PETN / Pentaervthritol tetranitrate /		2-Nitrotoluene	3-Nitrotoluene
CAS No.	84-66-2	0, 77 - 70	85-01-8	85-68-7	86-30-6	0 25 20	7-67-00	6-00-10	1 0	87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		00-00	3 (0 (1							118-96-7		7-61-171	h-70-171	2601-61-0	70-15-0	0-64-614	0.51.33	0-69-66	606-20-2	78-11-5		88-72-2	99-08-1
Meth/ Matrix		2000																														UW35/W													
	98070 Jd																																												
Sample Date	30-MAR-92																																												
Depth	17.0	<u>:</u>																																											
Field Sample No.	91819																																												
Site ID	91819																																												
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* - Analyte Description has been truncated. See Data Dictionary

91820

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

Depth	Sample Date	Lab	Lab Anly. No.		CAS No.	Analyte Description	Meas. Bool.	Conc.	Unit Meas.	Flag Codes	Data Quals
30-MA	IR-92	PC C	58676	3	99-35-4 99-65-0 99-99-0	1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 4-Nitrotoluene	55	.319 2.25 11 6	תפר תפר תפר	n	z- ⊼ ⊼
13.0 17-MAR-92	IR-92	PC	80047	SB07/ SD08/	7439-97-6	Mercury Lead	ן ד	.74 .18.2	ner ner		
					7440-28-0 7440-38-2	Thallium Arsenic	ו נו	2.5 6.01	ner ner		
				SS15/W	7782-49-2 7429-90-5	Selenium Aluminum		14.9 5630	vg. Ug.		
					7439-89-6	Iron	-	17000	ner		
					7439-95-4	Lead Magnesium	_	4910	Jon Net		
					7439-96-5	Manganese	!	305	ner		
					7459-98-7	Molybdenum Nickel	5 =	30.9	ปี ก		
					2-60-0772	Potassium	: -	1250	ั่ง กั		
					7440-22-4	Silver		105	ner		
					7440-23-5	Sodium	!	1190	ngr		
					7440-28-0	Thallium		100	รู้		
					7440-39-3	Barium	-	22.2	i i		
					7-17-077	Beryllium	LT	2.5	ם		
					2440-43-9	Cadmium	LT	5	NGL		
					7440-47-3	Chromium		110	NGL		
					7440-48-4		<u>ר</u>	52	NGL		
					7//0-50-8	Copper	5	50 4	UGL		
					7-79-0447	Vanadium		57.5	1901 1101		
					2-02-0772	Calcina		12200	j :		
					7782-49-2	Selenium	5	75	ÖÖ		
				TF13/	14797-55-8	Nitrite, nitrate - nonspecific	i	375	ngi		
				TY03/	57-12-5		-1	8.17	UGL		
				UM05/	100-41-4	Ethylbenzene	QN	2	UGI.	~	
					100-42-5	Styrene / Ethenylbenzene / Styrol /	QN	S	ndl	~	
						Styrolene / Cinnamene *					
					10061-01-5	cis-1,3-Dichloropropylene / cis-1,3-	QN	Ŋ	NGL	~	
					107 07 0	Dichloropropene		L	į		
					107-06-2	1,2-Dichloroethane	2 :	~ .	ner	≃ :	
					1-01-901	Methyl Isobutyl Ketone /	Q	10	ngr	œ	
					108-00 7	Isopropylacetone / 4-Methyl-2-pen*	2	ı		ď	
					108-90-3	Chlorobonzone / Monochlorobonzone	2 5	ר ע	, 101	× c	
					124-48-1	בוויסן ספרובבוופ / המווסמונסן ספרובבוופ	2	,	Joor	ĸ	

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

24-001-94

Data Quals	:																																									
Flag Codes		د د	¥	~	c	¥	~	~	~	~	· ~	~	~	~	· ~	· œ	· œ	~	· œ	· œ	· œ	: <u>c</u>	±	∞	: œ	: 02	: 2	: 2≃	:	2	:	2	: œ	۵ :	د مد	: 0	< 0	: 0	<u>د</u> م	· 🗠	· œ	
Unit Meas.	1011	<u> </u>	UGL	NGL	-	OGL	NGL	UGL	NGL	NGL	ner	ner	ngr	T _D n	ner	ายก	ner	ner	ารก	ner	i g	<u> </u>	5	ign	ู้ อี	191	i ign	ndi		190		1911	19n		nei nei	5 5	รี เรา	3 5	ner	ner	ner	
Conc.		ı u	1	5	Ľ	1	5	10	10	2	2	2	10	10	10	10	٠,	2	2	2	2	5	1	2	2	10	C	2		2		5	2	5.0	20	10	9	10	9	10	5	
Meas. Bool.	- CR	9	Ē	S	Ş	È	QN	QN	Ş	QN	Q	QN	Q	Q	Q	Q	Q	ą	ą	QN.	P	QN	<u>!</u>	QN ON	N	QN.	N O	Q		QN		QN	ND	S	9	CN	2	S	Q	N	Q.	
Analyte Description	Dibromochloromethane /	Chlorodibromomethane Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene trans-1.2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	ene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	
CAS No.	124-48-1	127-18-4		156-59-2	156-60-5		56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6	·	79-34-5				100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2
Meth/ Matrix	UM05/																																	UM06/								
Lab Lab Anly. No.	PC 80047																																									
	17-MAR-92																																									
Depth	13.0																																									

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

Sample Depth Date

Field Sample No. 1

Site Site Type ID ----

Data Quals																																											
Flag Codes		~	~ ~	~	~	~	~	~	~	~	~	~	~	~	~	~		~	~	~	~	~	~	~		~		~	~	~		×	~	~	~	~	~	~	~	~	~	~	œ
Unit Meas.	ngr.	3	d d	UGL	NGL	NGL	NGL	NGL	NGL	NGL	NGL	NGL	UGL	NGL	UGL	NGL		ПGL	NGL	NGL	UGL	UGL	NGL	NGL		NGL		NGL	NCL	NGL		UGL	NGL	NgF	UGL	UGL	NGL	NGL	NGL	NGL	NGL	NGL	NGL
Conc.	10	J.	20	10	10	10	10	10	10	10	10	10	10	10	10	10		10	10	10	10	10	50	10		20		10	10	10		10	10	50	10	10	10	10	. 10	10	10	10	10
Meas. Bool.	2	2	<u> 2</u>	9	윤	윤	오	2	ջ	ջ	윤	오	Q	용	Q	呈		딮	2	皇	QN	₽	Q	9		9		Q	Q	9		Q	Q	Q	9	2	9	2	웆	9	2	S	9
Analyte Description	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe* Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,D]pyrene	Benzo[b] fluoranthene / 3,4-	Benzofluoranthene	Fluoranthene	Benzo[k]fluoranthene	Acenaphthylene	Chrysene	Benzo[a] pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo[a]anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine
CAS No.	108-95-2	111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		534-52-1		541-73-1	56-55-3	29-20-7		606-20-2	621-64-7	65-85-0	67-72-1	7-47-47	78-59-1	83-32-9	84-66-2	84-74-5	85-01-8	85-68-7	86-30-6
Meth/ Matrix	/90MN																																										
Lab Anly. No.	PC 80047																																										

* - Analyte Description has been truncated. See Data Dictionary

24-001-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

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Unit Meas.	ner	ner		NGL	Ngr	NGL	NGL	ner	150	<u>.</u>	190	ngr	NGL	190	NGL	NGL		NGL	NGL	NGL	Net	NGL		UGL	ner		ngi.	NGL		ngi.	131	1 1 1 1 1	5	nei	ner	UGL	NCL	ner	ner	ner	NGL		
Conc.	10	10		50	10	20	10	10	10	10	20	10	10	10	20	10		50	10	10	30	.319		.321	.653		2.29	1.29		3.2	77	. co. c	30.0	949.	.492	.517	.319	.338	317	5	ς.		
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Analyte Description	Fluorene / 9H-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Maphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	Unknown compound 651	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	2 6-Dinitrotoluepe	PEIN / Pentaervthritol tetranitrate /	oxv)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Nitrite, nitrate - nonspecific	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	styroterie / cimamene "	
CAS No.	86-73-7	87-68-3		87-86-5	88-10-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		99-09-2				118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8	1	0-59-55	606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-69-66	0-66-66	14797-55-8	100-41-4	100-42 - 5	10061-01-5	>
Meth/ Matrix	UM06/																					UM35/																	TF13/	UM05/			
Lab Lab Anly. No.	PC 80047																																						PC 81787				
Sample Date	17-MAR-92																																					•	10.0 18-MAR-92				
Depth	13.0																																					•	10.0				
Field Sample No.	91820																																					,	91821				
Site Site Type ID	91																																					400	911821				

* · Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

24-001-94

Site ID ----

Site Type

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Analyte Description	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen*	Toluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	trans-1.2-Dichloroethylene / trans-	1.2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*		<pre>Tetrachloroethane / Acetylene *</pre>	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol
CAS NO.	10061-01-5	107-04-2	108-10-1	- 2 2	108-88-3	108-90-7	124-48-1		127-18-4		156-59-2	156-60-5		56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		2-34-5				100-01-6	100-02-7
Meth/ Matrix	140MU																																								/90WN	
Lab Lab Anly. No.	PC 81787																																									

^{* -} Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Site Site Type ID ----WELL 91B21

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91 24-OCI-

24-0C1-94

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Conc.		5 5	5 6	10	10	10	10		10	10	10	10	10	10	10	10	10	2 0	10) (2 (2	0	5 5	2	9	<u> </u>	n.	<u>.</u>	10	10	50	10		50		10	10	10		10	10	50	10	10	10
Meas. Bool.		9 9	<u> </u>	9	읖	S	Q.		ᄝ	ջ	S	S	2	S	2	S	2	2	2	2	2 5	2 5	<u> </u>	<u> </u>	9	5 5	2	2	Q	욷	S	S		皇		ջ	문	2		S	Q	S	S	ջ	S
Analyte Description	Renzy a Cohol	2 4-Dimethylohenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo [ahi] pervlene	Indeport 2 3-C Discrepe	Renzo(b) fluoranthene / 3 /-	Benzofluoranthene	Flioranthone		benzotk) rtuorantnene	Acenaphtnylene	Chrysene	Benzo[a]pyrene	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dinitrophenol	1,3-Dichlorobenzene	Benzo [a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone
CAS No.	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-30-5	205-99-2		0-77-902	207-08-0	6-00-107	218-90-8	Z18-01-9	50-52-8	51-28-5	53-70-3		534-52-1		541-73-1	56-55-3	29-50-7		606-20-2	621-64-7	65-85-0	67-72-1	4-24-22	78-59-1
Meth/ Matrix	UM06/																																												
	PC 81787																																												
Sample Date	18-MAR-92																																												
Depth	10.0																																												
Field Sample No.	91821																																												

* - Analyte Description has been truncated. See Data Dictionary

Field Sample No.

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

Data Quals																																													
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Analyte Description		Accidoning the boloto	Dietnyt phunatate	phononthy philipidate	Frienantinrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 98-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol .	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	2.4.6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	Z-Nitrotoluene	3-Nitrotoluene	1,5,5-Irinitrobenzene	7,5-Dinitrobenzene	4-Nitrototuene
CAS No.	87.72.0	8/-46-7	8/-7/-7	07 04 0	0-10-60	85-68-7	9-02-98	86-73-7	87-68-3		87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		2-60-66			118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0	4	2-02-909	78-11-5	6	2-2/-88	99-08-1	99-55-4	0-65-66	77-77-U
Meth/ Matrix	14041	0000																										UM35/	•																
Lab Lab Anly. No.	DC 81787																																												
Sample Date	18-MAD-02																																												
Depth	100	2																																											
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* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW

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	Meas. Bool.		לב כ כככ כ:
ate Range: 01-JAN-91 24-0CI-94	Analyte Description	Mercury Lead Thallium Arsenic Selenium Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Antimony Barium Cadmium Cadmium Copper Copper Copper Copalt Copper Cotalium Selenium Selenium Selenium Selenium Selenium Selenium Selenium	Mercury Lead Thalium Arsenic Selenium Aluminum Iron Lead Magnesium Manganese Molybdenum Nickel
Date Range:	CAS No.	7439-97-6 7439-97-6 7440-28-0 7440-28-0 7440-28-0 7439-90-5 7439-90-5 7440-02-0 7440-02-0 7440-39-3 7440-41-3 7440-41-3 7440-41-3 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-70-2 7782-49-2 7782-49-2 7782-49-2 7782-49-2	7439-97-6 7439-92-1 7440-38-0 7440-38-2 7429-92 7439-96-5 7439-96-5 7439-96-5 7439-98-7 7439-98-7
Sampling D	Meth/ Matrix	SS15/W SD08/ SD08/	SB07/ SD08/ SS15/W
	Lab Anly. No.	PC 85190 85197 851970	PC 87432
	Sample Date	20-MAR-92	24-Mar-92
	Depth	10.0	8.0
	Field Sample No.	91821	91822
	Site ID	6	91822
	Site Type	WELL	

* - Analyte Description has been truncated. See Data Dictionary

24-001-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

Field Sample No. 1

Site Site Type ID 91822

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Unit Meas.		<u> </u>	ner Ner	NGL	Ner	NGL	ner	NGL	NGL	UGL	NGL	NGL	NGL	NGL	NGL	NGL	NGL	ו מפר	ner	ġ	UGL	-	J :	UGL	•	OGF.	UGL 1	ner	-	Util	NGL		NGL		NGL	ner	NgL	ngr	Ner	NGL	NGL	NGL	NGL
Conc.	1250	12.5	3060	100	37.1	20	2.5	5	15	25	20	50	625	15900	22	68.3	8.17	LΩ	2	ı	Λ	u	Λ ^ξ	2		Λı	Λι	2	u	n	5		2	1	2	10	10	ν	Ŋ	2	9	10	10
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Analyte Description	Potassitm	Silver	Sodium	Thallium	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper			Calcium			Cyanide	Ethylbenzene	Styrene / Ethenylbenzene / Styrol /			Dichloropropene	1,2-Ulchloroethane	Methyl Isobutyl Ketone /	Isopropylacetone / 4-Methyl-2-pen*	loluene	Chlorobenzene / Monochlorobenzene	Dibromochloromethane /	Chlorodibromomethane	Tetrachloroethono / Domonhloroetholog	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane
CAS No.	2-60-0772	7-66-0772	7440-23-5	7440-28-0	7440-36-0	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	9-99-0552	7440-70-2	7782-49-2	14797-55-8	57-12-5	100-41-4	100-42-5		<- LO-LOOOL	0 70 701	7-90-701	108-10-1	7	108-88-5	108-801	124-48-1	1 01 461	4-01-171	156-59-2		156-60-5		56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3
Meth/ Matrix (, -			,-	,-	,-	,-	, -		•	•		TF13/		UM05/W																									
Lab Anly. No.	87432																																										
Lab ,	, d	,																																									
Sample Date	24-MAR-02	E4 (1011) /E																																									
Depth		;																																									

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ----WELL 91822

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

24-0C1-94

Data Quals																																															
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Unit Meas.		ng N	NGL	UGL	UGL	UGL	121	<u> </u>))	3	ן טער	UGL	ng.	NGL	NGL		NGL		NGL	ner	190	1 2	100	j :	, i	3 5	מון	י מני	ner	пgГ		NGL	NGL	NGL	NGL	UGL	NGL	ngr	NGL	ngr	NGL	ner	ner	NGL	ner	ngr	i I I
Conc.	1 (2	'n	ī	'n	5	ľ	ı LC	1	u	Ο 1	Ω	10	Ŋ	Ŋ		ľ		Ŋ	ıs	20	i C	2 2	. 5	2 5	5 5	2 5	2 ;	9	0		10	10	41	10	10	10	10	10	10	10	10	10	10	10	10	
Meas. Bool.		ş	S	Ş	욮	읒	S	£	<u>:</u>	9	N D	Q.	Q.	Q	윷		S		S	QN	2	Ş	9	9	2 5	2	2 5	2	윤	Ş		9	ą		ð	Q	Q	9	Q	ð	ş	Q	Q	Q	Q	S	!
Analyte Description		Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1.1-Dichloroethane	1.1-Dichloroethylene / 1.1-	Dichloroethene	Taichlenofling	Trichiological	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2.4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1 4-Dichloroberzese		4-cittoroanittine	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Anthracene	1,2,4-Trichlorobenzene	2,4-Dichlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Benzo[ghi]perylene	Indeno[1,2,3-C,0]pyrene	Benzo[b]fluoranthene / 3.4-	Benzofluoranthene
CAS NO.	75 04 /	4-10-0/	2-60-57	0-51-6	75-25-2	75-27-4	75-34-3	75-35-4		75-60-7	10.07	(8-8/-5	78-93-3	2-00-62	79-01-6		79-34-5				100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-44-7	106-47-8	0.4.00	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-83-2	121-14-2	129-00-0	131-11-3	132-64-9	191-24-2	193-39-5	205-99-2	
Meth/ Matrix	17 2070	M/CDWD																			/90MU																										
Lab Lab Anly. No.	02/23	PL 0/432																																													
Sample Date	2/- WAD-02	24-MAK-72																																													
Depth	α																																														
Field Sample No.	01822	7.1022																																													

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCI-

24-0CT-94

Site 1D ----

Site Type

Data Quals																																																			
Flag Codes		¥	œ	œ	œ	: Oc	٤ ۵	¥	œ		~		c	۱ کا	¥	œ		œ	2	: O		¥ i	~	œ	œ	œ	۵ ۵	۷ د	¥	œ	œ	œ	œ		œ	~	Ω.	: 0	< 0	۲ ا	œ	œ	~	~	œ	۵ ۵	۵ ک	¥	œ	c	¥
Unit Meas.		TDO	ายก	T9n	NGL	5 =	3 3	UGL	ngr		ngr		2	150 :	ngr	UGF		ngr	191] 	3 5	Tnn :	NGL	Tgn	UGL	9	3 3	190	OGL	UGL	ner	UGL	UGL		Ner	ISU	191	150	150	n(ar	Nor	ายก	ner	Ner	191	1 2	150	T90	UGL	3	190
Conc.		20	9	10	10	2 €	2 5	20	10		20		ç	2 :	10	10		10	ξ.	- <u>r</u>	2 5	2	9	9	10	10	2 5	2 \$	₽.	10	10	10	10		20	01	0.5	2 5	2 5	2	10	10	50	10	Į,	2 5	2 6	20	10	Ĺ	20
Meas. Bool.	! !	2	R	S	Q	2 5	2	읒	욷		S		4	2	2	Q		S	9	2 9	2 :	2	2	Q	Q	S	2 9	2	ş	ş	ş	오	2		QN	2	9	2 9	2 5	2	2	2	읒	9	9	2 5	2	2	욮	!	2
Analyte Description		Fluoranthene	Benzo [k] fluoranthene	Acenaphthylene	Chrysene	Don't of other	aua ikd ra 107 uag	2,4-Dinitrophenol	Dibenz[ah]anthracene / 1,2:5,6-	Dibenzanthracene	4.6-Dinitro-2-cresol / 2-Methyl-4.6-	dinitrombonol		1,3-Ulchlorobenzene	Benzo [a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-chloro-3-m*	2 6-Dinitrotoliene	N-Withosodi-p-propylamine	משיקה היים אליהם היים היים היים היים היים היים היים	מבונסוני מכומ	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diothyl phtholoto	Dietilyt plittatate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9H-Fluorene	Hexachlorobutadiene / Hexachloro-1.3-	butadiene	Pentachlorophenol	2 / A-Trichlorophanol	2-Without line		Z-N1trophenot	Naphthalene / Jar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3.3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1 2-Dicklorobenzene		Z-Chlorophenot	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline
CAS No.		206-44-0	207-08-9	208-96-8	218-01-9	E0 22-9	0-75-00	51-28-5	53-70-3		534-52-1			1-01-150	56-55-3	59-50-7		606-20-2	421-44-7	45.05.0	0-0-0	67-72-1	77-47-4	78-59-1	83-32-9	87.46.2	2-00-40	7-41-48	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3		87-86-5	88-06-2	88-7/-/	2 12 20 20 20 20 20 20 20 20 20 20 20 20 20	6-67-00	91-20-5	91-57-6	91-58-7	91-94-1	95-48-7	05-50-1	73-30-1	8-16-66	95-95-4	98-95-3		99-09-2
Meth/ Matrix		/90Wn																																																	
		PC 87432																																																	

^{* -} Analyte Description has been truncated. See Data Dictionary

24-001-94

Site Site Type ID ---- ----WELL 91B22

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW

54-0CI-9 ⁴	
01-JAN-91	
Sampling Date Range:	
Date	
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Sampl	

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Flag Codes	2	œ																																								
Unit Meas.	UGL	חטר	Jogr	NGL	NGL	=	100	j	ngi		NGL	UGI,		NGL	NGL	NGL	UGL	TSN	ner	UGT.	nd.	ug.	190	195	l ign	9	190	1911	191	1911	เรา	ISH	Ë		: ::::::::::::::::::::::::::::::::::::		; :	1 5	j 1	i 9	5 5	ner ner
Conc.	10	10	617.	.321	.653	200	1 20	,	3.2		79.	5.02		979.	765	.517	.319	.338	12.1	2.5	6.01	14.9	0696	29000	100	26700	723	30.9	63.1	1490	12.5	1190	100	37.1	5 79			8 77	25.5	202	52.6	49.7
Meas. Bool.	ND	S -	_	ב	Lī	-	; <u>-</u>	;			5	ב		ר	Ľ	ר	LT	ב		Lī	רַ	-1							; '-		1				·	_	; :	;	<u>-</u>	; =	i	
Analyte Description	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether 2 4 6-Trinitrofolumne / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	CVClotetramethylenetetranitramine	Tetry / N-Methyl-N.2.4.6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Lead	Thallium	Arsenic	Selenium	Aluminum	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Silver	Sodium	Thallium	Antimony	Barium	Bervilium	Cadmitan	Chromium	Cobalt	Copper	Vanadium	Zinc
CAS NO.		118-96-7		121-14-2	121-82-4	2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-69-66	0-66-66	7439-92-1	7440-28-0	7440-38-2	7782-49-2	7429-90-5	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7439-98-7	7440-02-0	2440-09-7	7440-22-4	7440-23-5	7440-28-0	7440-36-0	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7-87-0552	7440-50-8	7440-62-2	9-99-0552
Meth/ Matrix	/90MU	UM35/W																	SD08/				SS15/W																			
Lab Lab Anty. No.	PC 87432																		PC 87424																							
Sample Depth Date	Š																		6.0 24-MAR-92																							
Field Sample No. De																			91823																							

91823

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

Field Sample No.

Site Site
Type ID
---WELL 91823

Data Quals																																										
Flag Codes				~	~		œ	ŧ	∝ c	¥	1	×	~ 0	<	~		~	,	œ	c	z :	<u>~</u>	≃ :	œ	×	×	~	~	~	×	×	~	~	×	œ	~		×	œ	~	œ	
Unit Meas.	John I	1 10 10 10 10 10 10 10 10 10 10 10 10 10	UGL	ner	ner		ng N	į	j 5	UGL	;	UGL	75 T	Jour	NGL		NGL		ner	-	ספר	nei.	UGL	UGI.	UGF,	UGF.	UGI.	ner	ngi.	ner	ncil.	Nor	ner	NGL	UGL	ner		UGL	Ner	UGL	UGL	
Conc.	50000	200	8.17	2	2	1	ſ	į	Λ·	2	1	v)	ın u	n	2	•	۲O	,	.c	u	.	10	10	īŪ		2	10	10	10	10	2	Ŋ	2	5	2	z,		2	2	10	5	
Meas. Bool.	; ; ;	5	-1	₽	읒		ş		2 9	Q		₽	9 9	Š	Q	!	용		Q	9	2	₽	Q	용	용	QN	Q	Q.	Q	ð	Q	ə	QN	Q	Q	Q		Q	Q	웆	Q.	
Analyte Description	Calcium	Selenium Nifrite nifrate - nonspecific		Ethylbenzene	Styrene / Ethenylbenzene / Styrol /	Styrolene / Cinnamene *	cis-1,3-Dichloropropylene / cis-1,3-	Dichloropropene	1,2-Dichloroethane	Methyl Isobutyl Ketone /	<pre>Isopropylacetone / 4-Methyl-2-pen*</pre>	Toluene	Chlorobenzene / Monochlorobenzene	UIDFOIROCHTOFORECTIONS /	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	cis-1,2-Dichloroethylene / cis-1,2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	
CAS No.	7440-70-2	7782-49-2 14797-55-8	57-12-5	100-41-4	100-42-5		10061-01-5		107-06-2	108-10-1		108-88-3	108-90-7	1-04-471	127-18-4		156-59-2		156-60-5	3 20 73	20-62-0	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	24-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6
	SS15/W	TF13/	TY03/	UMO5/W																																						
Lab Lab Anly. No.	PC 87424																																									
Lab	- 2d																																									
Sample Date	24-MAR-92																																									
Depth	6.0																																									

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ---- ----WELL 91823

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

					•						
	Sample		Lab				Meas.		Unit	Flag	Data
Depth	Date	Lab	Lab Anly. No.	Matrix	CAS No.	Analyte Description	Bool.	Conc.	Meas.	Codes	Ottals
6. 0	24-MAR-92	<u>م</u>		UM05/W	79-01-6	Trichloroethylene /Trichloroethene /	E Q	2	חפר	. ~	
							!				
					79-34-5	Tetrachloroethane / 1,1,2,2-	QN	2	T9N	~	
						Tetrachloroethane / Acetylene *					
						Xylenes, total combined	Q.	5	ngi.	~	
						trans-1,3-Dichloropropene	Q	2	UGL	œ	
				/90Wn	100-01-6	4-Nitroaniline	QN	50	UGL	œ	
					100-02-7	4-Nitrophenol	Q	50	UGL	~	
					100-51-6	Benzyl alcohol	Q	10	UGL	~	
					105-67-9	2.4-Dimethylphenol	Q	10	UGL	œ	
					106-44-5	p-Cresol / 4-Cresol / 4-Methylphenol	QN	10	NGL	~	
					106-46-7	1.4-Dichlorobenzene	Q	10	UGL	~	
					106-47-8	4-Chloroaniline	9	10	UGL	~	
					108-60-1	Bis(2-chloroisopropyl) ether	Ą	10	NGL	œ	
					108-95-2	Phenol / Carbolic acid / Phenic acid	QN	10	NGL	œ	
						/ Phenylic acid / Phe*					
					111-44-4	Bis(2-chloroethyl) ether	Q.	10	UGI.	~	
					111-91-1	Bis(2-chloroethoxy) methane	Ą	10	UGI.	~	
					117-81-7	Bis(2-ethylhexyl) phthalate	Ą	10	UGL	œ	
					117-84-0	Di-n-octyl phthalate	Ą	10	UGL	œ	
					118-74-1	Hexachlorobenzene	QN	10	UGL	×	
					120-12-7	Anthracene	QX	10	UGL	~	
					120-82-1	1,2,4-Trichlorobenzene	2	10	CGL	: 0≃	
					120-83-2	2.4-Dichlorophenol	Q	10	ner	· 02	
					121-14-2	2,4-Dinitrotoluene	Q.	10	NGL	≃	
					129-00-0	Benzo[def]phenanthrene / Pyrene	9	10	UGL	~	
					131-11-3	Dimethyl phthalate	2	10	NGL	~	
					132-64-9	Dibenzofuran	QN	10	NGL	~	
					191-24-2	Benzo [ghi] perylene	QN	10	UGL	œ	
					193-39-5	Indeno[1,2,3-C,0]pyrene	Q	10	UGL	~	
					205-99-2	Benzo[b]fluoranthene / 3,4-	QN	10	ncr	~	
						Benzofluoranthene					
					206-44-0	Fluoranthene	Q.	10	ngr	~	
					207-08-9	Benzo [k] fluoranthene	Q.	10	UGI.	~	
					208-96-8	Acenaphthylene	QN	10	UGI.	~	
					218-01-9	Chrysene	Q.	10	ner	œ	
					50-32-8	Benzo [a] pyrene	QN	10	ner	~	
					51-28-5	2,4-Dinitrophenol	Q	50	NGL	œ	
					53-70-3	Dibenz[ah]anthracene / 1,2:5,6-	QN	10	NGL	~	
						Dibenzanthracene					
					534-52-1	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	Q.	50	NGL	~	
					,	dinitrophenol		:			
					541-73-1	1,3-Dichlorobenzene	Q.	10	를 1	œ :	
					56-55-3	Benzo [a] anthracene	QN	10	NGF NGF	œ	

* - Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

Sample
Depth Date

Field Sample No. Depth

Site Site Type ID

Date:																																		-		> 2	<u>.~</u>		*		-	<u> </u>
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Unit Meas.	ugi.	NGL	ner Ner	า ก	년 :	ner N	15 E	חפר	15 E	ngr	ายก	ngr	UGL	Jg Ng	Ngl	:	15 E	ਤ ਹ	ל ה	NGL	UGL	ng N	าอูก	NGL	UGL	NGL	UGL	UGL	ner		UGL	NGL	UGT.	UGL		Ner	NGL		NCL	NGL	3	Car
Conc.	10	10	10	20	10	10	£ ;	01	<u></u> 2	10	10	10	10	10	10	8	20	10	20	10	10	10	10	20	10	10	10	20	10		50	10	10	.319		.321	.653		2.29	1.29	د ۶	J. E
Meas. Bool.	9	Ş	Q	S	⊋ :	2	₽:	2	2	2	S	Ş	윷	2	2		2	2	웆	2	2	S	₽	Ş	S	웆	읖	웆	2		₽	2	S	Ļ		L	Ľ		LT	Lĭ	-	-
Analyte Description	3-Methyl-4-chlorophenol / 4-Chloro-3-	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9M-Fluorene	Hexachlorobutadiene / Hexachloro-1,3-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirbane	3-Nitroaniline	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	2,4,6-Irinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol trinitrate
CAS No.	29-20-7	606-20-2	621-64-7	65-85-0	67-72-1	77-47-4	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6	86-73-7	87-68-3	;	87-86-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		2-60-66			118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8	0 67 55	0-69-66
Meth/ Matrix	/90MN																																	UW35/W								
Lab Anly. No.	PC 87424																																									

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Site Site Type ID

91824

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

24-001-94

Field Sample No.	Depth	Sample Date	Lab	Lab Lab Anly. No.	Meth/ Matrix	CAS No.	Analyte Description	Meas. Bool.	Conc.	Unit Meas.	Ft ag Coders	Data Qualis
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	::::	:		1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	!!!	1 1 1 1 1	i 1 1 1	;	•
91823	9.0	24-MAR-92	ე ე	87424	UM35/W	606-20-2	2,6-Dinitrotoluene	17	79 .	UGL		×
						78-11-5	PEIN / Pentaerythritol tetranitrate /	LT	5.02	NUT		2
-							2,2-Bis[(nitrooxy)me*					
						88-72-2	2-Nitrotoluene	-	949.	NGF		¥
						99-08-1	3-Nitrotoluene	-1	.492	UGL		¥
						99-35-4	1.3.5-Trinitrobenzene	-	.517	NGL		×
						0-59-66	1,3-Dinitrobenzene	: L	.319	UGL		¥
						0-66-66	4-Nitrotoluene	L1	.338	UGL		¥
	8.0	24-MAR-92	PC	87424	SB07/	7439-97-6	Mercury	-	.74	UGL		
91824	47.0		PC	77712	/ 00		Total petroleum hydrocarbons	N Q	1000	UGL	 -	
					SB07/	2439-97-6	Mercury	Lī	.74	NGL		
					SD08/	7439-92-1	Lead		24.7	UGL		
						7440-28-0	Thallium	LT	2.5	UGL		
						7440-38-2	Arsenic	L1	6.01	UGL UGL		
						7782-49-2	Selenium	11	14.9	NGL		
					SS15/	7429-90-5	Aluminum		15800	UGL		
						7439-89-6	Iron		37000	NGL		
						7439-92-1	Lead	-	100	NGL		
						7439-95-4	Magnesium		3760	NGL		
						7439-96-5	Manganese		1320	NGL		
						7439-98-7	Molybdenum	רַ	30.9	NGL		
						7440-02-0	Nickel	-	63.1	NGL		
						2440-09-7	Potassium	i	1880	NGL		
						7440-22-4	Silver	=	12.5	IUI		
						7440-23-5	Sodium	;	7640	191		
						7440-28-0	Thallim	-	100	351		
						0-52-0772	Antimon	- F	27.	d 5		
						2,70-30-2	Destination of the second of t	5	72 6	5		
						7/10/13/3	bar i ulli		0.0	7 O		
						/-15-055/	Beryllium		۲.5	UGL		
						7440-43-9	Cadmium	Ľ	2	UGI.		
						7440-47-5	Chromium		39.7	UGL		
						7440-48-4	Cobalt		35.5	ner.		
						7440-50-8	Соррег		34.1	UGI.		
						7440-62-2	Vanadium		54.6	ngı		
						2440-99-9	Zinc		810	UGI.		
						7440-70-2	Calcium		13900	ner		
						7782-49-2	Selenium	L1	75	ner		
					TY03/	57-12-5	Cyanide	LI	8.17	TDCI		
					UM05/	100-41-4	Ethylbenzene	QN	5	UGL	~	
						100-42-5	Styrene / Ethenylbenzene / Styrol /	QN	2	1911	~	
							Styrolene / Cinnamene *	!	•	!	:	
						10061-01-5	cis-1,3-Dichloropropylene / cis-1,3-	QN Q	5	UGL	~	
							Dichloropropene					
						107-06-2	1,2-Dichloroethane	ND	5	NGL	œ	

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Field Sample No. 1

Site Site Type ID WELL 91824

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

24-0CT-94

Data Quals																																								
Flag	~	~	~ =	ĸ	×	2	:	œ	5	×c	۷ ۵	۵ ک	2 22	: ≃:	24	œ	~	œ	œ	œ	œ	~	œ	œ		~	œ	œ	~	~	ŝ	×	c	∠ :	≃ (~ 0	¥ C	2 ء	∠ ≃	
Unit Meas.	NOL	190	15G	טער	ngr	ner		חפר	3	חפור	ביים ביים	100	ner Ner	ner ner	UGL	ner	ngr	nar	UGL	nar	UGL	UGL	NGL	NGL		NGL	UGI.	ner ner	ngr	UGL	4	NGL	-	UGL	ner	UGF.	1 1	7 5	ner	
Conc.	10	ſς	ហេរ	Λ	5	ſſ	\	Ŋ	u	Λ ξ	5 5	2 ਯ	י ער	ı LO	10	10	10	10	2	2	2	2	2	2	!	2	2	10	2	2	ı	Ω	L	Λı	Λ (0 2 2	00	2 5	2 5).
Meas. Bool.	ND	Ş	9 9	2	Ð	Ş	<u>}</u>	Q.	4	2 9	2 9	<u> </u>	2 5	9	9	9	ş	Q	Ð	2	9	Q	₽	9		S	2	Q.	Q	Q	!	QN	4	2	<u>Q</u> :	2 9	⊋ ⊊	2 9	2 5	<u>}</u>
Analyte Description	Methyl isobutyl ketone /	Isopropylacetone / 4-Methyl-2-pen* Inliese	Chlorobenzene / Monochlorobenzene	Ulbromochloromethane / Chlorodibromomethane	Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	Dichloroethene	trans-1,2-Dichloroethylene / trans-	1,2-Dichloroethene	Carbon tetrachloride	Methyl n-butyl Ketone / 2-Hexanone	Acelone	Represe	1.1.1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	1,1,2,2	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,5-Dichloropropene	4-Nitroaniline	4-Nitrophenol	benzyl alconol 2 /-pim-thulphool	2,4-Dimethytphenot n-fresol / 4-fresol / 4-Methylphenol	
CAS No.	108-10-1	108-88-3	108-90-7	124-48-1	127-18-4	156-50-2	1	156-60-5	t (56-23-5	03/1-/8-0	1-40-79	6-50-15	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	29-01-6	1	79-34-5				100-01-6	100-05-7	105-51-0	105-67-7	:
Meth/ Matrix	UM05/																																			/90Wn				
Lab Lab Anly. No.	PC 77712																																							
	15-MAR-92																																							
o. Depth	47.0																																							

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW

54-0 C1 - 6 4	
01-JAN-91	
Range:	
ng Date	
Sampling Date	

Opto	Quals	: : :																																															
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; <u>c</u>	Meas.	1 1 1	ner	Ner	NGL	190		131	Joe :	NGL	J _D n	NGL	=	j 5	<u> </u>	1 0	NGL	J N C	NGL	ner	5	3 3	100	וים ה ייבי	년 S		ner	1911	; =	d =	150	Jgn Ner	ПGL	UGL		UGL.		T9N	NGL	ner	NCL	lgn	190	ign	50	1 bn	190	j 5	ner
	Conc.		10	10	10	10	:	-	2 (2	10	10	1	2 =	2 €	2 ;	9	10	10	10	10	5 5	5 5	2 ;	9		10	10	, C	2 -	⊇ •	2 ∶	20	10		20		10	10	10	10	10	50	10	10	10	10	10	10
Second	Bool.		2	N	S	2	!	2	Ž :	2	S	S	Z	9	9	2 :	2	2	웆	S	S	9	2 9	2 :	9		2	QN	5	<u> </u>	Ş :	2	S	욷		용		皇	윤	웆	S	ş	Q	2	S	2	2	2	Q.
	Analyte Description		1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid		Ris(2-chloroethyl) ether	pists circl occupt, celler	BIS(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Rexachlorobenzene	Anthracene	1 2 4-Trichlorobenzene		Z,4-Ulchlorophenol	2,4-Dinitrotoluene	Benzo[def]phenanthrene / Pyrene	Dimethyl phthalate	Dibenzofuran	Reprofebilinemylepe	Indeport 2 3-C Discopp		Benzo[b] fluoranthene / 5,4-	Benzofluoranthene	Fluoranthene	Benzo [k] fluoranthene	Acenaphthylene	Chrysphe		Benzolaj pyrene	2,4-Dinitrophenol	Dibenz [ah] anthracene / 1,2:5,6-	Dibenzanthracene	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	dini trophenol	1,3-Dichlorobenzene	Benzo [a] anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate
	CAS No.		106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-01-1	1-16-111	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	20 07 0	7-69-021	121-14-2	129-00-0	131-11-3	132-64-9	101-24-2	193-30-5	י מי	7-66-007		206-44-0	207-08-9	208-96-8	218-01-9	50-22-0	20-35-0	51-28-5	53-70-3		534-52-1		541-73-1	56-55-3	29-50-7	606-20-2	621-64-7	65-85-0	67-72-1	7-27-22	78-59-1	83-32-9	84-66-2	84-74-2
Meth/	Matrix		UM06/																																														
Lab	Lab Anly. No.		PC 77712																																														
Sample	Date		15-MAR-92																																														
	Depth		0.74																																														
Field	Sample No.		91824																																														

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

Data Quals	:																																												
Flag Codes	. ~	~	œ	œ (¥	(¥	œ	~	œ	œ	~	œ	œ	~	~	œ	œ	œ	:	~	: c	× 1	×	s	S																			
Unit Meas.	ngr	ner.	ner	าย ก	UGL		UGL	rg,	ПGL	UGL	n gr	ng.	NGL	NGL	UGL	UGL	UGL	UGL	ner	1	1911	1 2	ה ה	ng.	NGL	UGL	NGI.		NGL	NGL		NGL	ngr		n er		ner	Ner		NGL	ner	NGL	UGL	ner	ngr
Conc	10	10	10	9	2	Ĺ	ያ :	10	20	9	10	10	10	20	10	10	10	20	9	!	50	2 5	⊇ ç	2	30	20	.319		.321	.653		2.29	1.29		3.2		·9·	5.02		959.	765.	.517	.319	.338	72.
Meas. Bool.	QN	2	Q.	2 :	2	;	Q.	2	2	QV	웃	Q	S	윤	윤	S	QN	S	2	!	Ş	2	2 9	2			=		ר	-			_				LT			1	LT	ב	=	ב	5
Analyte Description	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine	Fluorene / 9H-Fluorene	Hexachlorobutadiene / Hexachloro-1,5-	butadiene	Pentachlorophenol	2,4,6-Trichlorophenol	2-Nitroaniline	2-Nitrophenol	Naphthalene / Tar camphor	2-Methylnaphthalene	2-Chloronaphthalene	3,3'-Dichlorobenzidine	o-Cresol / 2-Cresol / 2-Methylphenol	1,2-Dichlorobenzene	2-Chlorophenol	2,4,5-Trichlorophenol	Nitrobenzene / Essence of mirbane /	Oil of mirhane	3-Nitroaniline			4-Chlorophenyl phenyl ether	Unknown compound 550	Unknown compound 651	2,4,6-Trinitrotoluene / alpha-	Trinitrotoluene	2,4-Dinitrotoluene	RDX / Cyclonite / Hexahydro-1,3,5-	trinitro-1,3,5-triazine *	Cyclotetramethylenetetranitramine	Tetryl / N-Methyl-N,2,4,6-	tetranitroaniline / Nitramine / *	Nitroglycerine / 1,2,3-Propanetriol	trinitrate	2,6-Dinitrotoluene	PETN / Pentaerythritol tetranitrate /	2,2-Bis[(nitrooxy)me*	2-Nitrotoluene	3-Nitrotoluene	1,3,5-Trinitrobenzene	1,3-Dinitrobenzene	4-Nitrotoluene	Mercury
CAS No.	85-01-8	85-68-7	86-50-6	86-73-7	87-08-3		87-80-5	88-06-2	88-74-4	88-75-5	91-20-3	91-57-6	91-58-7	91-94-1	95-48-7	95-50-1	95-57-8	95-95-4	98-95-3		69-09-2	1					118-96-7		121-14-2	121-82-4		2691-41-0	479-45-8		55-63-0		606-20-2	78-11-5		88-72-2	99-08-1	99-35-4	0-59-66	0-66-66	2439-97-6
Meth/ Matrix	190WD																										UM35/																		/208S
Lab Anly. No.	PC 77712																																												PC 36552
Sample Date	15-MAR-92																																												25.0 01-FEB-92
Depth	47.0																																												25.0
Field Sample No.	91824																																												AAD13
Site ID	91824																																												AAD 13
Site Type	WELLS																																												-

* - Analyte Description has been truncated. See Data Dictionary

24-0CT-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

Data	Orats	:			
Flag	Codes	1			
Unit	Meas.		ner	NOL	NGL
	Conc.	1	1.26	2.5	6.01
Meas.	Bool.	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	LT	17	
	Analyte Description		Lead	Thallium	Arsenic
:	CAS NO.		7439-92-1	7440-28-0	7440-38-2
Meth/	atrix	1 1 1 1 1 1	,800s	7440-28-0	7440-38-2
Meth/	atrix	1 1 1 1 1 1		7440-28-0	7440-38-2
Sample Lab Meth/	Date Lab Anty. No. Matrix		01-FEB-92 PC 36552 SD08/	2440-28-0	7440-38-2
Sample Lab Meth	Depth Date Lab Anty, No. Matrix		25.0 01-FEB-92 PC 36552 SD08/	7440-28-0	7440-38-2
Sample Lab Meth/	Depth Date Lab Anty, No. Matrix		25.0 01-FEB-92 PC 36552 SD08/	7440-28-0	7440-38-2
Sample Lab Meth	sample No. Depth Date Lab Anly, No. Matrix		25.0 01-FEB-92 PC 36552 SD08/	0-87-0742	7440-38-2

	Metn/			Meas.		Unit	Flag
	Matrix	CAS NO.	Analyte Description	Boot.	Conc.	Meas.	Codes
!	1	!	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	!	1	-	1
	SD08/	7439-92-1	Lead	17	1.26	NOL	
		7440-28-0	Thatlium	17	2.5	ner	
		7440-38-2	Arsenic	LT	6.01	NGL	
		7782-49-2	Selenium	LT	14.9	ner	
	SS15/	7429-90-5	Aluminum		236	NGL	
		7439-89-6	Iron		7890	NGL	
		7439-92-1	Lead	ב	100	ner	
		7439-95-4	Magnesium		1260	NGL	
		2439-96-5	Manganese		212	NGL	
		7439-98-7	Molybdenum	Ļ	30.9	UGL	
		7440-02-0	Nickel	ב	63.1	ng.	
		2440-05-7	Potassium	רַ	1250	UGL	
		7440-22-4	Silver	Lī	12.5	NGL	
		7440-23-5	Sodium		788	NGL	
		7440-28-0	Thallium	Ļ	100	UGL	
		7440-36-0	Antimony	LI	37.1	UGL	
		7440-39-3	Barium	L	20	NGL	
		7440-41-7	Beryllium	LT	2.5	NGL	
		2440-43-9	Cadmium	[1	2	NCL	
		7440-47-3	Chromium	LI	15	UGI.	
		7440-48-4	Cobalt	L	22	ncr	
		7440-50-8	Copper	1	20	UGL	
		7440-62-2	Vanadium	LT	50	UGI.	
		2440-66-6	Zinc		1070	ner	
		7440-70-2	Calcium		18600	ner	
	!	7782-49-2	Selenium	L	75	UGL	
	TF13/	14797-55-8	Nitrite, nitrate - nonspecific		271	ner.	
	TY03/	57-12-5	Cyanide	רַ	8.17	UGF	
	UM35/	118-96-7	2,4,6-Trinitrotoluene / alpha-	۲,	.319	UGŁ	
			Trinitrotoluene				
		121-14-2	2,4-Dinitrotoluene	-1	.321	UGI.	
		121-82-4	RDX / Cyclonite / Hexahydro-1,3,5-		9.07	UGL	ပ
			trinitro-1,3,5-triazine *				
		2691-41-0	Cyclotetramethylenetetranitramin e		86	חניו	ပ
		479-45-8	Tetryl / N-Methyl-N,2,4,6-	LI	1.29	n Cl.	
		!	tetranitroaniline / Nitramine / *				
		55-63-0	Nitroglycerine / 1,2,3-Propanetriol	LT	3.2	ner.	
		C 0C 707	trinitrate	!	;		
		7-07-000			.64	NCI.	
		C-11-9/	2 2.bio.Critrockive*		5.02	ner	
		88-72-2	2,2-Bisl(nitrooxy)me* 2-Nitrotoluoso		;	Š	
		99-08-1	Z-Nitrotoluene Z-Nitrotoluono	֓֞֞֓֓֓֓֞֜֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	940.	.00F	
		7-52-66	1 3 5-Trinitrobenzene	_ <u>-</u> -	2496	ם ב	
		1	in the contraction of the contra	_	110.	UGL	
i							

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ---- ----

W2-17

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

AAD13 25.0	_	Ľ	Lab Anly. No.	2	CAS No.	Analyte Description	Boot.	Conc.	Unit Meas.	Flag	Data Quals
			2455		0 27 00	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	F	210	1 2	1	
	.U UI-reb-yz		76606 1	/ccmn	0-59-66.	i,s-Uinitropenzene	<u>.</u> ا	۶۱۲. ۱۳۶	UG		
					0-66-66	4-Nitrotoluene	Ľ	. 558	Tgn		
2-17 38	38.0 17-MAR-92	92 PC	c 81760	2807/	2439-97-6	Mercury	Γĭ	.74	ngF		
				SD08/	7439-92-1	Lead		5.12	ncr		
					7440-28-0	Thallium	L1	2.5	NGL		
					7440-38-2	Arsenic	רַן	6.01	ner		
					7782-49-2	Selenium	LT	14.9	NGL		
				SS15/W	7429-90-5	Aluminum		591	UGL		
					7439-89-6	Iron		2220	TSO		
					7439-92-1	Dead	_	000	190		
					7/30-0272			3790	5 S		
					7.30-06-5	Pagines Luii		047	, d		
					7 20 02 7	mailgariese	:	404	1 5		
					7-86-657	Molybdenum	<u>.</u> :	50.9	חפר.		
					0-70-05-0	Nickel	5	03.1	OGL		
					2-60-0552	Potassium		12300	T5N		
					7440-22-4	Silver	רַ	12.5	NGL		
					7440-23-5	Sodium		2770	NGL		
					7440-28-0	Thattium	רו	100	NGL		
					7440-36-0	Antimony	Lĭ	37.1	NGL		
					7440-39-3	Barium		51.4	NGL		
					7440-41-7	Beryllium	Ľ	2.5	NCL		
					7440-43-9	Cadmium	ר	2	NGF		
					2440-47-3	Chromium	; ; ;	. 55	ner		
					7-87-0772	Cobalt		25	ner		
					2440-50-8	Conner	: -	2	190		
					2-29-0772	Vanadium	: =	2 1	1911		
					9-99-0772	7 inc	i	727	5 5		
					2-02-0772	Calcita		38400	101		
					2-67-6822	Selenita	_	75	101		
				1703/	57-12-5	Cyanide	- 1-	۲۱ ۵	191		
				11MO57	100-41-4	C) unide	3 5		191	œ	
				10000	100-42-5	Styrape / Ethanylhapzapa / Styrol /	2	י עי	3 3	: 02	
					1	Styrolene / Cinnamene *	2	,		:	
					10061-01-5	cis-1,3-Dichloropropylene / cis-1,3-	QN	75	UGL	~	
						Dichloropropene					
					107-06-2	1,2-Dichloroethane	QN	5	UGL	×	
					108-10-1	Methyl isobutyl ketone /	QN	10	NGL	×	
						Isopropylacetone / 4-Methyl-2-pen*					
					108-88-3	Toluene	Q	2	NGL	~	
					108-90-7	Chlorobenzene / Monochlorobenzene	Q.	2	NGL	~	
					124-48-1	Dibromochloromethane /	2	2	NGL	~	
						Chlorodibromomethane	:	ı	-	ć	
					127-18-4	letrachloroethylene /	QV.	٠	UGL	¥	

^{* -} Analyte Description has been truncated. See Data Dictionary

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

24-0CT-94

Field Sample Sample Sample No. Depth Date 2-17 38.0 17-MAR-92

Site Site
Type ID
---WELL W2-17

Data Quats	*																																										
flag Codes		۷	~	c	× 0	۰ ۵	: ≃	~	~	~	~	~	~	~	~	~	œ	~	œ		~	œ	~	~	×		~		~	~	~	~	œ	~	œ	· 02	· ~	œ	: 02	_	~	~	· œ
Unit Meas.	1011	do	NGL	3	ופור	101	UGL	ner	UGI	UGI	NGL	NGL	UGL	NGL	NGL	Ner	NGL	NGL	Ner		NGL	NGL	NGL	UGL	NGL		ner		NGL	NGL	UGL	UGL	UGI.	ngr.	ner	ner	: ncr	ner	1911	3	NGL	UGL	UGL
Conc.	; ; ; ; ; ; ;	7	2	u	J [0		۲.	5	10	10	10	10	ī	2	2	5	2	S		2	2	10	22	2		2		ហ	Ŋ	20	20	10	10	10	10	10	10	10	2	10	10	10
Meas. Bool.	<u> </u>	Ē	Q	9	3 5	2	S	ð	2	읒	2	9	2	2	S	S	2	2	2		9	9	2	Ð	Q		₽		Q	Q	Q	QN	QN	ə	QN	Q	QN	Q	9	1	9	9	Q.
Analyte Description	cis-1 2-Dichlopoethylene / cis-1 2-	Dichloroethene	trans-1,2-Dichloroethylene / trans-	Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Trichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2-	<pre>Tetrachloroethane / Acetylene *</pre>	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate
CAS No.	156-59-2)	156-60-5	54-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-2	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4	;	7-69-51	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5				100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2		111-44-4	111-91-1	117-81-7
Meth/ Matrix																														•	/90M0												
Lab Lab Anly. No.	PC 81760																																										

* - Analyte Description has been truncated. See Data Dictionary

24-001-94

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: GGW Sampling Date Range: 01-JAN-91

24-0CT-94

Sample Depth Date 38.0 17-MAR-92

Field Sample No. C

Site Site Type ID

PC 81760 UMO6/ 117-84-0 118-74-1 120-12-7 120-83-2 120-83-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 121-14-2 132-64-9 191-24-2 193-39-5 206-44-0 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5	Di-n-octyl phthalate Hexachlorobenzene Anthracene 1,2,4-Trichlorobenzene 2,4-Dichlorophenol 2,4-Dinitrotoluene Benzo[def]phenanthrene / Pyrene Dimethyl phthalate Dibenzofuran Benzo[ghi]perylene Indeno[1,2,3-C,D]pyrene Benzo[b]fluoranthene / 3,4-	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10 10	UGL UGL	~ ~	
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120-12-7 120-82-1 120-83-2 121-14-2 123-64-9 131-11-3 132-64-9 191-24-2 193-39-5 205-99-2 206-44-0 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5	Anthracene 1,2,4-Trichlorobenzene 2,4-Dichlorophenol 2,4-Dinitrotoluene Benzoldeflphenanthrene / Pyrene Dimethyl phthalate Dibenzofuran Benzolghilperylene Indeno[1,2,3-C,D]pyrene Benzolbjfluoranthene / 3,4-	<u> </u>		=	: (
120-82-1 120-83-2 121-14-2 129-000-0 131-11-3 132-64-9 191-24-2 193-39-5 205-99-2 206-44-0 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5 53-70-3 54-52-1 54-73-1 56-55-3 59-50-7 621-64-7	1,2,4-Trichlorobenzene 2,4-Dichlorophenol 2,4-Dinitrotoluene Benzoldeflphenanthrene / Pyrene Dimethyl phthalate Bibenzofuran Benzolghilperylene Indenol1,2,3-C,Dlpyrene Benzolbifluoranthene / 3,4-	<u> </u>	10	OUL	∞ 1	
120-83-2 121-14-2 129-00-0 131-11-3 132-64-9 191-24-2 193-39-5 205-99-2 206-44-0 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5 51-28-5 53-52-1 54-73-1 56-55-3 59-50-7 621-64-7	2,4-Dichlorophenol 2,4-Dinitrotoluene Benzo[def]phenanthrene / Pyrene Dimethyl phthalate Dibenzofuran Benzo[ghi]perylene Indeno[1,2,3-C,D]pyrene Benzo[b]fluoranthene / 3,4-	9999 9	10	กตร	∝ (
121-14-2 129-00-0 131-11-3 132-64-9 191-24-2 193-39-5 205-99-2 205-99-2 208-96-8 218-01-9 50-32-8 51-28-5 53-70-3 54-52-1 541-73-1 56-55-3 59-50-7 621-64-7	2,4-Dinitrotoluene Benzoldef]phenanthrene / Pyrene Dimethyl phthalate Dibenzofuran Benzolghi]perylene Indeno[1,2,3-C,D]pyrene Benzolbjfluoranthene / 3,4-	9 9 9 9	10	ng	o∠ (
129-00-0 131-11-3 132-64-9 191-24-2 193-39-5 205-99-2 205-99-2 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5 53-70-3 54-52-1 541-73-1 56-55-3 59-50-7 606-20-2 621-64-7	Benzo[def]phenanthrene / Pyrene Dimethyl phthalate Dibenzofuran Benzo[ghi]perylene Indeno[1,2,3-C,D]pyrene Benzo[b]fluoranthene / 3,4-	오 오 !	10	ner ner	∝ :	
131-11-3 132-64-9 191-24-2 193-39-5 205-99-2 206-44-0 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5 53-70-3 54-52-1 56-55-3 59-50-7 621-64-7 65-85-0	Dimethyl phthalate Dibenzofuran Benzo[ghi]perylene Indeno[1,2,3-C,D]pyrene Benzo[b]fluoranthene / 3,4-	오 :	10	ner	œ	
132-64-9 191-24-2 193-39-5 205-99-2 206-44-0 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5 51-28-	Dibenzofuran Benzofahi]perylene Indeno[1,2,3-C,D]pyrene Benzofb]fluoranthene / 3,4-	•	10	ner	œ	
191-24-2 193-39-5 205-99-2 206-44-0 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5 53-70-3 54-52-1 56-55-3 59-50-7 621-64-7 65-85-0	Benzo (gh i) perylene Indeno (1,2,3-C,D) pyrene Benzo (b) fluoranthene / 3,4-	⊋	10	NGL	œ	
193-39-5 205-99-2 206-44-0 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5 51-28-5 53-70-3 54-73-1 541-73-1 56-55-3 59-50-7 661-64-7	Indeno[1,2,3-C,D]pyrene Benzo[b]fluoranthene / 3,4-	Q.	10	NGL	œ	
205-99-2 206-44-0 207-08-9 208-98-8 218-01-9 50-32-8 51-28-5 53-70-3 54-75-1 56-55-3 59-50-7 65-85-0	Benzo[b] fluoranthene / 3,4-	ND	10	NGL	œ	
206-44-0 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5 53-70-3 54-52-1 56-55-3 59-50-7 666-20-2		물	10	NGL	~	
206-44-0 207-08-9 208-96-8 218-01-9 50-32-8 51-28-5 53-70-3 54-52-1 541-73-1 56-55-3 59-50-7 621-64-7	Benzofluoranthene					
207-08-9 208-96-8 218-01-9 50-32-8 51-28-5 53-70-3 54-52-1 54-73-1 56-55-3 59-50-7 621-64-7 65-85-0	Fluoranthene	Q	10	ner	~ 1	
208-96-8 218-01-9 50-32-8 51-28-5 53-70-3 534-52-1 541-73-1 56-55-3 59-50-7 621-64-7 65-85-0	Benzo[k]fluoranthene	Q.	9	ner ner	× 1	
218-01-9 50-32-8 51-28-5 53-70-3 534-52-1 541-73-1 56-55-3 59-50-7 621-64-7 65-85-0	Acenaphthylene	Q.	10	ner ner	≃ ;	
50-32-8 51-28-5 53-70-3 534-52-1 541-73-1 56-55-3 59-50-7 621-64-7 65-85-0	Chrysene	Q.	10	Jo T	œ (
51-28-5 53-70-3 534-52-1 541-73-1 56-55-3 59-50-7 621-64-7 65-85-0	Benzo [a] pyrene	Q.	10	ner	<u>~</u>	
53.70-3 534-52-1 541-73-1 56-55-3 59-50-7 621-64-7 65-85-0	2,4-Dinitrophenol	읒	20	ายโ	o∠ 1	
534-52-1 541-73-1 56-55-3 59-50-7 621-64-7 65-85-0	Dibenz[ah]anthracene / 1,2:5,6-	2	10	ner	œ	
534-52-1 541-73-1 56-55-3 59-50-7 621-64-7 65-85-0	Dibenzanthracene		i			
541-73-1 56-55-3 59-50-7 606-20-2 621-64-7 65-85-0	4,6-Dinitro-2-cresol / 2-Methyl-4,6-	웆	20	ner	~	
541-73-1 56-55-3 59-50-7 606-20-2 621-64-7 65-85-0	dinitrophenol		,		c	
56-55-3 59-50-7 606-20-2 621-64-7 65-85-0	1,3-Dichlorobenzene	2	0L	חפר	∠ :	
59-50-7 606-20-2 621-64-7 65-85-0	Benzo[a]anthracene	2	₽;	100	<u>×</u> 6	
606-20-2 621-64-7 65-85-0	3-Methyl-4-chlorophenol / 4-Chloro-3-	2	10	UGL	×	
606-20-2 621-64-7 65-85-0	cresol / 4-Chloro-3-m*				c	
621-64-7	2,6-Dinitrotoluene	2	10	ngr	×	
65-85-0	N-Nitrosodi-n-propylamine	S	10	UGL	×	
	Benzoic acid	S	20	DOL.	¥ 2	
67-72-1	Hexachloroethane	S	0.	Jon	¥ (
7-27-22	Hexachlorocyclopentadiene	S	0.	UGL	¥ (
78-59-1	Isophorone	Q	0.;	UGL	× 0	
83-32-9	Acenaphthene	2	0.5	DGL g.	× :	
84-66-2	Diethyl phthalate	S	10	ner	≃ :	
84-74-2	Di-n-butyl phthalate	2	10	ngr ngr	~ <	
85-01-8	Phenanthrene	ð	0.	Uut	× 6	
7-89-58	Butylbenzyl phthalate	Ş	10	Jgn :	o≤ (
9-30-9	N-Nitrosodiphenylamine	S	0.0	NGL 1161	× c	
7-2-2-	Fluorene / 9M-Fluorene	9	10	UGL	Υ (
87-68-3	Hexachlorobutadiene / Hexachloro-1,3-	웆	10	ner	×	
3 70 20	butadiene	S	50	ner	œ	
87-80-7	rentaciitoropienot 2 / k-Trichlorophenot	2 9	10	NGL	~	

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID WELL W2-17

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

24-0CT-94

Lab Anty. No. P. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1.	Came		-	:							
P. 6 81760 UNOD, UNOD UNID RESIDENT RESIDENCE RESI	Sample	lab	Lab Aniv Mo	Meth/	011		Meas.		Unit	Flag	Data
PC 81760 UNG6, 89-75-4		1 !		VI 1300	CAS NO.	Analyte Description	Bool.	Conc.	Meas.	Codes	Quals
91-26-3 2 Nitropland I and 100 UGL 91-26-3 2 Nitropland I and 100 UGL 91-26-3 2 Nitropland I and 100 UGL 91-26-3 2 Nitropland I and 100 UGL 95-57-8 2 Contropland I and 100 UGL 95-57-8 2 Contropland I and 100 UGL 95-57-8 2 Contropland I and 100 UGL 95-57-8 2 Contropland I and 100 UGL 95-57-8 2 Contropland I and 100 UGL 95-57-8 2 Contropland I and 100 UGL 95-57-8 2 Contropland I and 100 UGL 96-55-7 3 Nitropland I and 100 UGL 96-95-7 3 Nitropland I and 100 UGL 96-95-7 4 Contropland I and 100 UGL 96-95-7 5 Nitropland I and 100 UGL 97-95-7 5 Nitropland I and 100 UGL 97-95-7 5 Nitropland I and 100 UGL 97-95-7 5 Nitropland I and 100 UGL 98-95-7 8 Order of Ward Cather NO UGL 98-95-7 8 Order of Ward Cather NO UGL 98-95-7 8 Order of Ward Cather NO UGL 98-95-7 8 Order of Ward Cather NO UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-2 2 Contropland I and 100 UGL 121-14-15-15-15-15-15-15-15-15-15-15-15-15-15-	17-MAR-92	PC		13MD6/	88-74-4	2-M3-4-2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1	!	1	1	;
71-30-3 - 2-Mitrophenot ND 10 UGL 71-30-4 - 3.3-***Oichtoromaphthalene ND 10 UGL 71-30-4 - 3.3-***Oichtoromaphthalene ND 10 UGL 71-30-4 - 3.3-***Oichtoromaphthalene ND 10 UGL 71-30-7 - 3.3-****Oichtoromaphthalene ND 10 UGL 75-50-1 1.2-****Oichtoromaphthalene ND 10 UGL 75-50-1 1.2-****Oichtoromaphthalene ND 10 UGL 75-50-2 2-4,5-Trichtorophenot ND 10 UGL 75-50-3 Nitropensen Essence of mirbane ND 10 UGL 75-50-3 Nitropensen Essence of mirbane ND 10 UGL 75-50-3 Nitropensen Essence of mirbane ND 10 UGL 75-50-4 Nitropensen Essence of mirbane ND 10 UGL 75-50-1 Nitropensen Essence of mirbane ND 10 UGL 75-50-1 Nitropensen Essence of mirbane ND 10 UGL 75-50-1 Nitropensen Essence of mirbane ND 10 UGL 75-50-1 Nitropensen Essence of mirbane ND 10 UGL 75-50-1 Nitropensen Essence of mirbane ND 10 UGL 75-50-1 Nitropensen Essence of mirbane ND 10 UGL 75-50-1 Nitropensen Essence of mirbane ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-50-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 Nitropensen ND 10 UGL 75-70-1 NITROPENSEN ND 10 UGL 75-70-1 NITROPENSEN ND 10 UGL 75-70-1 NITROPENSEN ND 10 UGL 75-70-1 NITROPENSEN ND 10 UGL 75-70-1 NITROPENSEN ND 10 UGL 75-70-1 NITROPENSEN ND 10 UGL 75-70-1 NITROPENSEN				10010	1 1 20 00	z-willoaniline	ş	20	NGL	~	
91-57-6 91-57-6 91-57-7 91-7 91-7 91-7 91-7 91-7 91-7 91-7 9					00-73-3	Z-Nitrophenol	Q	10	UGL	~	
91-56-7 2 - Chichylaphthalene No 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					5-02-14	Naphthalene / Tar camphor	ð	10	1311	2	
91-94-1 92-95-2 91-94-1 92-95-4 91-94-1 92-95-4 92-95-3 93-10-10-10-10-10-10-10-10-10-10-10-10-10-					91-57-6	2-Methylnaphthalene	S	10	201	۰ ۵	
91-94-1 3.3** Dichlorobenzidine No Cresol (2-Methylphenol No 10 10 10 10 10 10 10 10 10 10 10 10 10					91-58-7	2-Chloronaphthalene	5	. . .	3 3	< 0	
95-50-1 10-20-10-10-10-10-10-10-10-10-10-10-10-10-10					91-94-1	3.3'-Dichlorobenzidine	2 5	2 2	ากก	¥ ;	
95-57-8 2-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-					95-48-7	0-fresol / 2-fresol / 3-Mothylabar-1	2 5	0.0	T9n	~	
95-97-8 2-7-101101000000000					05-50-1	1 2-Nichtanhammer	2	2	UGL	œ	
95-97-6 2-Trichrophenol ND 50 UGL 98-97-3 Mitroaphenol ND 50 UGL 98-97-3 Mitroaphenol ND 50 UGL 98-97-3 Mitroaphenol ND 50 UGL 99-09-2 3-Mitroalline P					05-57-0		QN	10	UGL	œ	
99-99-5 3, Nitrobenzene (0.70-04	<pre>c-chlorophenol</pre>	9	10	50	2	
98-95-3 Mitrobenzene / Essence of mirbane / ND 10 101 99-09-2 3-Nitroaniline					95-95-4	2,4,5-Trichlorophenol	S	20	1 2	: 0	
011 of mirpane 99-09-2 3-Nitrorolluene 113-96-7 12-14-2 13-14-2 13-14-2 13-14-2 13-14-2 14-14					98-95-3	Nitrobenzene / Essence of mirhane /	9	2 5	100	۷ د	
99-09-2 3-Nitromilibate 99-09-2 3-Nitromilibate 99-09-2 3-Nitromilibate 118-96-7 2,4,6-Trinitrotoluene / alpha-						Oil of minhon	Š	2	UGL	¥	
### 18-96-7 ***Informopheny! pheny! ether ***UM35/** 118-96-7 ***Linitrotoluene / alpha-** 121-14-2 ***Linitrotoluene / alpha-** 121-14-2 ***Linitrotoluene / alpha-** 121-14-2 ***Linitrotoluene / alpha-** 121-14-2 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-14-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 121-13-3 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alpha-** 122-2 ***Linitrotoluene / alp					6-00-00						
4-Enomophenyl phenyl ether 4-Enomophenyl phenyl ether 4-Chlorophenyl phenyl ether 5-4,6-Trinitrotoluene 121-14-2					7-40-44	3-Nitroaniline	ş	20	19n	~	
118-96-7 4-Chlorophenyl phenyl ether ND 10 10 10 10 11 11-14-2 24,6-Trinitrotoluene alpha-						4-Bromophenyl phenyl ether	9	10	; :	: 0	
UM35/ 118-96-7 2,4,6-Trinitrotoluene / alpha- LT .319 UGL 121-14-2						4-Chlorophenyl phenyl ether	Ş	2 (3 3	د د	
121-14-2				UM35/	118-96-7	2.4.6-Trinitrotoluene / almba-	<u> </u>	2	מול ל	¥	
121-14-2						Trinitrotoluses	_	615.	UGL		
121-182-4					121-14-3						
121-82-4					7-41-171	2,4-Dinitrotoluene	Ļ	.321	ner		
2691-41-0 Cycloterramethylenetetranitramine LT 2.29 UGL 479-45-8 Tetry(/ N-Methyl-N, 2,4,6- LT 1.29 UGL 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT 3.2 UGL 478-15-63-0 Nitroglycerine / 1,2,3-Propanetriol LT 3.2 UGL 57-63-0 EEN / Pentaerythritol tetranitrate / LT 5.02 UGL 78-11-5 PEIN / Pentaerythritol tetranitrate / LT 5.02 UGL 99-08-1 3-Nitrotoluene LT 5.02 LT 5.02 UGL 99-08-1 3-Nitrotoluene LT 5.02 UGL 99-08-1 3-Nitrotoluene LT 5.02 UGL 99-08-1 3-Nitrotoluene LT 5.03 UGL 99-95-0 4-Nitrotoluene LT 5.03 UGL 99-95-0 4-Nitrotoluene LT 5.35-Trinitrobenzene LT 5.39 UGL 100-42-5 Styroene / Ethenylbenzene / Styrol / ND 5 UGL 100-42-5 Styroene / Ethenylbenzene / Styrol / ND 5 UGL 107-06-2 1,3-Dichloropropene (171-87-4	RDX / Cyclonite / Hexahydro-1,3,5-		.653	<u> </u>		
2691-41-0 Cyclotetramethylenetetranitramine LT 2.29 UGL 479-45-8 Tetryl, N-Wethyl N,2,4,6- 55-63-0 Nitroglycerine / 1,2,3-Propanetriol LT 3.2 UGL 606-20-2 2,6-Dinitropaline / Nitramine / LT 5.02 UGL 78-11-5 PENN / Pentaerythritol tetranitrate / LT 5.02 UGL 99-08-1 3-Nitrotoluene PC N-Nitrotoluene PC N-Nitrotoluene PC N-Nitrotoluene PC N-Nitrotoluene PC N-NITROTOLUENE PC 49166 UMO5/ 100-41-4 Ethylbenzene / Styrol / ND 5 UGL 100-42-5 Styrene / Ethenylbenzene / Styrol / ND 5 UGL 100-42-5 Styrene / Ethenylbenzene / Styrol / ND 5 UGL 107-06-2 1,2-Dichloropropylene / cis-1,3-Dichloropropene 107-06-2 1,2-Dichloropropene 108-10-1 108-88-3 Toluene ND 5 UGL 108-88-3 Toluene ND 5 UGL 108-88-3 Toluene ND 5 UGL 108-88-3 Toluene ND 5 UGL 108-88-3 Toluene ND 5 UGL 108-88-1 UNION-12-Den*						trinitro-1,3,5-triazine *			;		
479-45-8 Tetryl / N-Methyl-N,2,4,6- 55-63-0 Nitroglycerine / 1,2,3-Propanetriol					2691-41-0	Cyclotetramethylenetetranitramine	-	2 30	3		
55-63-0 Nitroglycerine / 1,2,3-propanetriol LT 3.2 UGL tetranitronalile / Nitramine / * 1.29 UGL trinitrate 606-20-2 2,6-Dinitrotoluene 2,2-Bis[Cnitroxy]me* LT 646 UGL 2,2-Bis[Cnitroxy]me* LT 646 UGL 99-08-1 3-Nitrotoluene 99-35-4 1,3,5-Trinitrobenzene LT 6492 UGL 99-55-0 1,3-Dinitrobenzene LT 6492 UGL 99-55-0 1,3-Dinitrobenzene LT 6492 UGL 99-55-0 1,3-Dinitrobenzene LT 6492 UGL 100-41-4 Ethylbenzene / Styrol / ND 5 UGL 100-42-5 Styrolene / Ethylbenzene / Styrol / ND 5 UGL 100-42-5 Styrolene / Cinnamene * 10061-01-5 Cis-1,3-Dichloropropene / Dichloropropene / Dich					8-57-627	Tetroi / N-Mothol-M 2 / 2	; :	67.5	UGF		
S5-63-0 Certain troan line / Nitramine / *					2	10'4'Z'N-WELIIAL-N'Z'+'O-	=	1.29	UGL		
10						tetranitroaniline / Nitramine / *					
trinitrate 606-20-2 2,6-Dinitrotoluene 78-11-5 PETN / Pentaerythritol tetranitrate / LT .64 88-72-2 2,2-Bis(Initrooxy)me* 99-08-1 3-Nitrotoluene 99-08-1 3-Nitrotoluene 99-35-4 1,3,5-Trinitrobenzene 1,3-Dinitrobenzene 1,3-D					55-63-0	Nitroglycerine / 1.2.3-Propanetrial	_	2 2	3		
666-20-2 2,6-Dinitrotoluene 78-11-5 PEIN / Pentaerythritol tetranitrate / LT 5.02 UGL 78-72-2 2,7-Bis(introoxy)me* 88-72-2 2,Nitrotoluene 99-08-1 3-Nitrotoluene 99-55-4 1,3.5-Trinitrobenzene 99-55-4 1,3.5-Trinitrobenzene 99-55-0 1,3-Dinitrobenzene 99-55-0 1,3-Dinitrobenzene 100-42-5 5tyrene / Ethylbenzene / Styrol / ND 5 001 100-42-5 5tyrene / Ethenylbenzene / Styrol / ND 5 001 100-42-5 1,3-Dichloroptopylene / cis-1,3- ND 5 001 100-42-5 1,3-Dichloroptopylene / cis-1,3- ND 5 001 106-10-1 Methyl isobutyl ketone / ND 10 10 1001 108-88-3 Toluene 108-88-3 Toluene 108-88-3 Toluene 108-88-3 Toluene 108-88-1						trinitrate	3	3.6	UGL		
## 78-11-5					606-20-2	2 Kanipataluan		:			
Section					70 11 5	z,o-viniti ototuene	5	.64	ngr		
88-72-2 2-Bis(Initrooxy)me* 88-72-2 2-Nitrotoluene 99-08-1 3-Nitrotoluene 99-35-4 1,3.5-Trinitrobenzene 99-55-0 1,3-Dinitrobenzene 1,1 100-41-4 Ethylbenzene 100-42-5 Styrene / Ethenylbenzene / Styrol / ND 5 0.61 100-42-5 Styrene / Ethenylbenzene / Styrol / ND 5 0.61 100-42-5 Styrolene / Cinnamene * 10061-01-5 Cis-1,3-Dichloropropylene / Cis-1,3- ND 5 0.061 107-06-2 1,2-Dichloroptopene 107-06-2 1,2-Dichloroptopene 108-10-1 Methyl isobutyl ketone / ND 5 0.061 108-10-1 Methyl isobutyl ketone / ND 5 0.061 108-88-3 Toluene 108-90-7 Chlorobenzene / Monochlorobenzene ND 5 0.061 124-48-1					C-11-0/	PEIN / Pentaerythritol tetranitrate /	ב	5.02	2		
88-72-2 2.Nitrotoluene 99-08-1 3-Nitrotoluene 99-08-1 3-Nitrotoluene 99-08-1 3-Nitrotoluene 99-35-4 1,3,5-Trinitrobenzene 1						2.2-Bisf(nitrooxv)me*	i		200		
99-08-1 3-Nitrotoluene					88-72-2	2-Nitrotoliopo		•			
99-35-4 1,3,5-Trinitrobenzene 17 .492 UGI 99-35-4 1,3.5-Trinitrobenzene 17 .517 UGI 99-50 1,3-Dinitrobenzene 17 .517 UGI 99-99-0 4-Nitrotoluene 17 .319 UGI 100-41-4 Ethylbenzene 100-42-5 Styrene / Ethenylbenzene / Styrol / ND 5 UGI 100-42-5 Styrolene / Cinnamene * 100-42-5 Styrolene / Cinnamene /					1 00 00	ב אורו סוסותפוופ		-646	ngr		
99-55-4 1,3,5 Trinitrobenzene 99-65-0 1,3-Dinitrobenzene 99-65-0 1,3-Dinitrobenzene 99-65-0 1,3-Dinitrobenzene 99-90 4.Nitrotoluene 100-41-4 Ethylbenzene LT 338 UGL 100-41-4 Ethylbenzene ND 5 UGL 100-42-5 Styrene / Ethenylbenzene ND 5 UGL 10061-01-5 cis-1,3-Dichloropylene / cis-1,3- ND 5 UGL 107-06-2 1,2-Dichloropylene ND 5 UGL 108-10-1 Methyl isobutyl ketone / ND 10 UGL 108-88-3 Toluene 108-90-64-1					1.00-1	3-Nitrotoluene		.492	1911		
99-65-0 1,3-Dinitrobenzene 99-99-0 4-Nitrotoluene PC 49166 UM05/ 100-41-4 Ethylbenzene 100-42-5 Styrene / Ethenylbenzene / Styrol / ND 5 UGL Styrolene / Cinnamene * 10061-01-5 cis-1,3-Dichloropropene 107-06-2 1,2-Dichloroptene / ND 5 UGL 108-10-1 Methyl isobutyl ketone / ND 10 UGL Isopropylacetone / 4-Methyl-2-pen* ND 5 UGL 108-88-3 Toluene ND 5 UGL 108-90-0 UGL 108-90-0 Chlorobenzene / Monochlorobenzene ND 5 UGL				-	77-55-4	1,3,5-Trinitrobenzene	[]	517	101		
PC 49166 UM05/ 100-41-4 Ethylbenzene					99-65-0	1,3-Dinitrobenzene		210	5 5		
PC 49166 UM05/ 100-41-4 Ethylbenzene Styrol / ND 5 UGI 100-42-5 Styrene / Ethenylbenzene Styrol / ND 5 UGI 100-42-5 Styrolene / Cinnamene * 10061-01-5 Cis-1,3-Dichloropropylene / Cis-1,3- ND 5 UGL 107-06-2 1,2-Dichloroethane ND 5 UGL 108-10-1 Methyl isobutyl ketone / ND 5 UGL 108-10-1 Isopropylacetone / 4-Methyl-2-pen* ND 5 UGL 108-88-3 Toluene ND 5 UGL 108-90-7 Chlorobenzene ND 5 UGL UGL 124-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 124-48-48-1 1					0-66-66	4-Nitrotoluene	- 1-		5 0		
100-42-5 Styrene / Ethenylbenzene / Styrol / ND 5 UGL 100-42-5 Styrene / Ethenylbenzene / Styrol / ND 5 UGL 10061-01-5 cis-1,3-Dichloropropylene / cis-1,3- ND 5 UGL 107-06-2 1,2-Dichloropropene 107-06-2 1,2-Dichloroethane 108-10-1 Methyl isobutyl ketone / ND 5 UGL 108-10-1 Sopropylacetone / 4-Methyl-2-pen* 108-88-3 Toluene 108-90-7 Chlorobenzene / Monochlorobenzene ND 5 UGL	12-FEB-92	PC	49166		100-7.1.7		-	900.	1001		
Styrene / Ethenylbenzene / Styrol / ND 5 UGL Styrolene / Cinnamene * Styrolene / Cinnamene * Styrolene / Cinnamene * Signification of the style / Cis-1,3- ND 5 UGL ND 5 UGL ND 10 UGL Isopropylacetone / 4-Methyl-2-pen* ND 5 UGL Toluene ND 5 UGL Chlorobenzene / Monochlorobenzene ND 5 UGL			!	1	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	רוואומפוולפוופ	2	5	IOO	~	
Styrolene / Cinnamene * 5 cis-1,3-Dichloropropylene / cis-1,3- ND 5 UGL Dichloropropene 1,2-Dichloroethane Methyl isobutyl ketone / MD 5 UGL Isopropylacetone / 4-Methyl-2-pen* Toluene Chlorobenzene / Monochlorobenzene ND 5 UGL					100-45-3	Styrene / Ethenylbenzene / Styrol /	2	2	2	2	
5 cis-1,3-Dichloropropylene / cis-1,3- ND 5 UGL Dichloropropene 1,2-Dichloroethane ND 5 UGL Methyl isobutyl ketone / ND 10 UGL Isopropylacetone / 4-Methyl-2-pen* Toluene Chlorobenzene / Monochlorobenzene ND 5 UGL						Styrolene / Cinnamene *			3	_	
Dichloropropene 1,2-Dichloroethane ND 5 UGL Methyl isobutyl ketone / WD 10 UGL Isopropylacetone / 4-Methyl-2-pen* Toluene Chlorobenzene / Monochlorobenzene ND 5 UGL					10061-01-5	cis-1.3-Dichloronrony Pnp / cis-1 2-	5	ш		1	
1,2-Dichloroethane ND 5 UGL Methyl isobutyl ketone / ND 10 UGL Isopropylacetone / 4-Methyl-2-pen* ND 5 UGL Toluene ND 5 UGL Chlorobenzene / Monochlorobenzene ND 5 UGL						Dichlopopopopo	5	n	ner	×	
Methyl isobutyl ketone / ND 5 UGL Methyl isobutyl ketone / 4-Methyl-2-pen* ND 5 UGL Toluene ND 5 UGL Chlorobenzene / Monochlorobenzene ND 5 UGL					2-701	1 3 Nith in the					
Methyl isobutyl ketone / ND 10 UGL Isopropylacetone / 4-Methyl-2-pen* ND 5 UGL Toluene Chlorobenzene ND 5 UGL				,	7-00-101	', c-Ulchloroethane	ð	2	ner	œ	
Isopropylacetone / 4-Methyl-2-pen* ND 5 UGL Chlorobenzene / Monochlorobenzene ND 5 UGL				•'	108-10-1	Methyl isobutyl ketone /	S	10	131	: 0	
Toluene Chlorobenzene / Monochlorobenzene / Monochlorobenzene / Monochlorobenzene ND 5 UGL						Isopropylacetone / 4-Methyl-2-nen*)	2	מפר	¥	
Chlorobenzene / Monochlorobenzene ND 5 UGL				•	108-88-3	Toluene	9	L	•	,	
One operation of the National State of the S					108-90-7	Chlorobenzene / Monochlonobana	2 5	n 1	UGL	×	
				•	12/-7/8-1	מינים מקבויד ו שמומרוונים מפנולבטב	2	Ω	ner	~	

* - Analyte Description has been truncated. See Data Dictionary

W2-18

Site Site Type ID

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

24-0CT-94

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Analyte Description	Dibromochloromethane /	Chlorodibromomethane Tetrachloroethylene /	Tetrachloroethene / Perchloroethylen*	Dichloroethene	trans-1,2-Dichloroethylene / trans-	I,∠-Uıchloroethene Carbon tetrachloride	Methyl n-butyl ketone / 2-Hexanone	Acetone	Chloroform	Benzene	1,1,1-Trichloroethane	Bromomethane	Chloromethane	Chloroethane	Vinyl chloride / Chloroethene	Methylene chloride / Dichloromethane	Carbon disulfide	Bromoform	Bromodichloromethane	1,1-Dichloroethane	1,1-Dichloroethylene / 1,1-	Dichloroethene	Trichlorofluoromethane	1,2-Dichloropropane	Methyl ethyl ketone / 2-Butanone	1,1,2-Trichloroethane	Trichloroethylene /Irichloroethene /	Ethinyl trichloride /T*	Tetrachloroethane / 1,1,2,2-	Tetrachloroethane / Acetylene *	Xylenes, total combined	trans-1,3-Dichloropropene	4-Nitroaniline	4-Nitrophenol	Benzyl alcohol	2,4-Dimethylphenol	p-Cresol / 4-Cresol / 4-Methylphenol	1,4-Dichlorobenzene	4-Chloroaniline	Bis(2-chloroisopropyl) ether	
CAS No.	124-48-1	127-18-4	156-50-2	7 77 77	156-60-5	56-23-5	591-78-6	67-64-1	67-66-3	71-43-2	71-55-6	74-83-9	74-87-3	75-00-3	75-01-4	75-09-5	75-15-0	75-25-2	75-27-4	75-34-3	75-35-4		75-69-4	78-87-5	78-93-3	2-00-62	79-01-6		79-34-5				100-01-6	100-02-7	100-51-6	105-67-9	106-44-5	106-46-7	106-47-8	108-60-1	108-95-2
Meth/ Matrix	UM05/																																190MD								
Lab Anly. No.	PC 49166																																PC 49166								
Sample Date	-																																13-FEB-92								
Depth	65. 0																																								
Field Sample No.	MW2-18																																								٠

* - Analyte Description has been truncated. See Data Dictionary

Site Site Type ID ---- ----WELL W2-18

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: GGW Sampling Date Range: 01-JAN-91

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Analyte Decription		Phenol / Carbolic acid / Phenic acid	/ Phenylic acid / Phe*	Bis(2-chloroethyl) ether	Bis(2-chloroethoxy) methane	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachtorobenzene	Anthracene	1 2 /- Tricklorobonzon	2 (-Dishlemonhone)		Composition of the composition o	Denzelut Johnsmanning / Pyrene	Dimetnyl phthalate	Dibenzoturan	Benzo[ghi]perylene	Indeno[1,2,3-C,D]pyrene	Benzo[b] fluoranthene / 3,4-	8enzofluoranthene	Fluoranthene	Benzo [k] fluoranthene	Acenaphthylene	Chrysene	Benzo[a] pyrene	2 4-Dinitrophenol	Dibenzfahlanthracene / 12.5 6-	Dibenzanthracene	4.6-Dinitro-2-cresol / 2-Methyl-4.6-	dinitrophenol	1.3-Dichlorobenzene	Benzo[a]anthracene	3-Methyl-4-chlorophenol / 4-Chloro-3-	cresol / 4-Chloro-3-m*	2,6-Dinitrotoluene	N-Nitrosodi-n-propylamine	Benzoic acid	Hexachloroethane	Hexachlorocyclopentadiene	Isophorone	Acenaphthene	Diethyl phthalate	Di-n-butyl phthalate	Phenanthrene	Butylbenzyl phthalate	N-Nitrosodiphenylamine
CAS NO		108-95-2		111-44-4	111-91-1	117-81-7	117-84-0	118-74-1	120-12-7	120-82-1	120-82-2	121-17-2	120-00-0	121-11-2	127 (7.0	6-60-701	2-47-161	195-39-5	7-66-507		206-44-0	207-08-9	208-96-8	218-01-9	50-32-8	51-28-5	53-70-3		534-52-1		541-73-1	56-55-3	59-50-7		606-20-2	621-64-7	65-85-0	67-72-1	77-47-4	78-59-1	83-32-9	84-66-2	84-74-2	85-01-8	85-68-7	86-30-6
Meth/ Matrix		190WN																																												
Lab Anlv. No.		PC 49166																																												
Sample Date	!	13-FEB-92																																												
Depth	. ;	0.65																																												
Field Sample No.		MW2-18																																												

^{* -} Analyte Description has been truncated. See Data Dictionary

Site ID ----

Site Type ...-

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW 24-OCT-

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Field	Sample	ە		Lab	Meth/		_	Meas.		Unit	Flag	Data
Sample No. Depth	oth Date		ab An	Lab Anly. No.	Matrix	CAS No.	Analyte Description E	Bool.	Conc.	Meas.	Codes	Quals
			:		!			!			-	
MW2-18 49	49.0 13-FEB-92		PC 4	49166		86-73-7	Fluorene / 9H-Fluorene	QN	10	NGL	~	
						87-68-3	Hexachlorobutadiene / Hexachloro-1.3-	Q	10	NGL	~	
							butadiene					
						87-86-5	Pentachlorophenol	Q	20	NGL	~	
						88-06-2	2,4,6-Trichlorophenol	Q	10	NGL	~	
						88-74-4	2-Nitroaniline	Q	20	ner	~	
						88-75-5	2-Nitrophenol	Q	10	NGL	~	
						91-20-3	Naphthalene / Tar camphor	QN	10	ner	~	
						91-57-6	2-Methylnaphthalene	QN	10	NGL	~	
						91-58-7	2-Chloronaphthalene	S	10	ngr	~	
						91-94-1	3,3'-Dichlorobenzidine	Q.	20	NGL	~	
						95-48-7	o-Cresol / 2-Cresol / 2-Methylphenol	NO	10	NGL	~	
						95-50-1	1,2-Dichlorobenzene	Q	10	NGL	~	
						95-57-8	2-Chlorophenol	Q.	10	NGL	~	
						95-95-4	2,4,5-Trichlorophenol	Q	20	NGL	~	
						98-95-3	Nitrobenzene / Essence of mirbane /	QN	10	NGL	~	
							Oil of mirbane					
						2-60-66	3-Nitroaniline	9	20	NGL	~	
							4-Bromophenyl phenyl ether	ş	0	NGL	~	
							4-Chlorophenyl phenyl ether	皇	10	UGL	~	
							Unknown compound 539		30	NGL	S	
							Unknown compound 544		200	NGL	S	
					UM35/	118-96-7	2,4,6-Trinitrotoluene / alpha-	רַ	.319	NGL		
							Trinitrotoluene					
						121-14-2	2,4-Dinitrotoluene	רַ	.321	NGL		
						121-82-4	RDX / Cyclonite / Hexahydro-1,3,5-	רו	.653	NGL		
							trinitro-1,3,5-triazine *					
						2691-41-0	Cyclotetramethylenetetranitramine	ר	2.29	NGL		
						479-45-8	Tetryl / N-Methyl-N,2,4,6-	רַ	1.29	NGL		
							tetranitroaniline / Nitramine / *					
						55-63-0	Nitroglycerine / 1,2,3-Propanetriol	17	3.2	NCL		
							trinitrate					
						2-02-909	2,6-Dinitrotoluene	רַ	. 64	ngr		
						78-11-5	PETN / Pentaerythritol tetranitrate /	۲1	5.02	ngr		
							2,2-Bis[(nitrooxy)me*					
						88-72-2	2-Nitrotoluene	LI	9 79 .	NGL		
						99-08-1	3-Nitrotoluene	רַ	765.	NGL		
						99-35-4	1,3,5-Trinitrobenzene	רן	.517	NGL		
						0-59-66	1,3-Dinitrobenzene	ב	.319	NGL		
						0-66-66	4-Nitrotoluene	5	.338	ngr		
	14-FEB-92		PC 5	50822	/ 66	1024-57-3	Heptachlor epoxide	רַ	6.00 E -3	NGL		
						1031-07-8	Endosulfan sulfate	ב	ш	NGL		
						1104-28-2	PCB 1221	S	-2.	NGL	~	
						11096-82-5	PCB 1260	2		NGL	œ	

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Data Quats

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

24-0CT-94

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Unit	Meas.	1 :	UGL	NCL	
	Conc.		۲.	۲.	•
Meas.	Boot.	1	QN	QV.	2
	Analyte Description	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PCB 1254	PCB 1232	12/0
	CAS No.		1097-69-1	11141-16-5	
Meth/	Matrix	1 1 1 1	/ 66		
Lab	Lab Anly. No. Matrix C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PC 50822		
Sample	Date		MW2-18 49.0 14-FEB-92		
	Depth	1	49.0		
Field	Sample No.		MW2-18		
Site	2		W2-18		
Site	Type	:	WELL		

0	Meth/			Moas		lni'r	Flag	
٠. ا	Matrix	CAS No.	Analyte Description	Bool.	Conc.	Meas.	Codes	
	00	11007-40-1	700 000			1 6	! ! ! !	
	/ //	1-60-76011	FCB 1234	O.	-	UGL	×	
		C-01-1411	PCB 1232	9		UGL	~	
		12672-29-6	PCB 1248	Q	۲.	OCF.	~	
		12674-11-2	PCB 1016	QN QN	-	ner	~	
		309-00-2	Aldrin	ר	6.38 E -2	ner		
		319-84-6	alpha-Hexachtorocyclohexane / alpha-	<u> </u>		101		
			Benzene hexachloride		ı	5		
		319-85-7	beta-Hexachlorocyclohexane / beta-	[]	1.09 E -2	190		
			Benzene hexachloride	i	1))		
		319-86-8	delta-Hexachlorocyclohexane / delta-	17	4.88 E -2	ner		
			Benzene hexachloride	i	ı			
		33213-65-9	Endosulfan II / beta-Endosulfan	11		UG!		
		50-29-3	2,2-Bis(p-chlorophenyl)-1,1,1-	רַ	3.16 E -2	ngr		
			trichloroethane					
		5103-71-9	alpha-Chlordane	[2.02 E -2	NGL		
		53469-21-9	PCB 1242	QN		ner	~	
		53494-70-5	Endrin ketone	17	2 2	ner		
		5566-34-7	qamma-Chlordane	<u>_</u>	ш	1 2		
		58-89-9	Lindane / gamma-Renzene hexachtoride	·] 		
			/ gamma-Hexachlorocvc*	ī	ı	i		
		60-57-1	Dieldrin	-	ш	1311		
		72-20-8		- t-	7- 117.6	100		
		0-07-7/		_	ш	חניר		
		(-54-5)	Methoxychlor / Methoxy-DDT / 1,1'-	ב	.267	NGL		
			(2,2,2-Trichloroethylide*					
		72-54-8	pp000 / 1,1-Dichloro-2,2-bis(p-	Ľ	8.48 E -2	U GI.		
			chlorophenyl)ethane / Rhoth*					
		72-55-9	2,2-Bis(p-chlorophenyl)-1,1-	LT	9.46 E −2	UGI.		
			dichloroethene					
		7421-93-4	Endrin aldehyde	LT		UGI.		
		2-44-8	Heptachlor / 1H-1,4,5,6,7,8,8-	[1	6.31 E -2	NGL		
			Heptachloro-3a,4,7,7a-tetrah*					
		8001-35-2	Toxaphene / Chlorinated camphene /	Q	5.	UGL	22	
			Camphechlor / Alltox / *					
		959-98-8	Endosulfan I / atpha-Endosulfan	Ľ	8.56 E -3	n cı.		
	ZB07/	9-26-6272	Mercury	Lĭ		NCL		
	SD08/	7439-92-1	Lead		100	ner		
		7440-28-0	Thallium	[1	2.5	ng.		
		7440-38-2	Arsenic	רַ	6.01	ner		
		7782-49-2	Selenium	LŢ	14.9	UGE		
	SS15/	2429-90-5	Aluminum		18000	NGL		
		7439-89-6	Iron		00066	ner		
		7439-92-1	Lead		137	ner		
		7439-95-4	Magnesium		3480	NGL		
		2439-96-5	Manganese		2800	NGL		

* - Analyte Description has been truncated. See Data Dictionary

Data Quats

Flag Codes

Unit Meas.

Final Documentation Appendix Report Installation :Anniston AD, AL (AN) File Type: CGW Sampling Date Range: 01-JAN-91

24-001-94

Sample Date -----

Field Sample No. (MW2-18

Site 1D ----W2-18

Site Type

49.0 Depth

	Conc.		30.9	128	3780	12.5	841	100	37.1	157	3.22	ጥ	09	433	109	102	962	8860	75	8.17
Meas.	Bool.	1				_		_	ב										ב	ב
	Analyte Description							Thallium												
	CAS No.	1 1 1 1 1 1	7439-98-7	7440-02-0	2-60-0552	7440-55-4	7440-23-5	7440-28-0	2440-36-0	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7440-62-2	9-99-0472	7440-70-2	7782-49-2	57-12-5
Meth/	Matrix	1 1 1 1 1	SS15/																	TY03/
Lab	~.		PC 50822																	

^{**} End of Report - 2328 Records Found **